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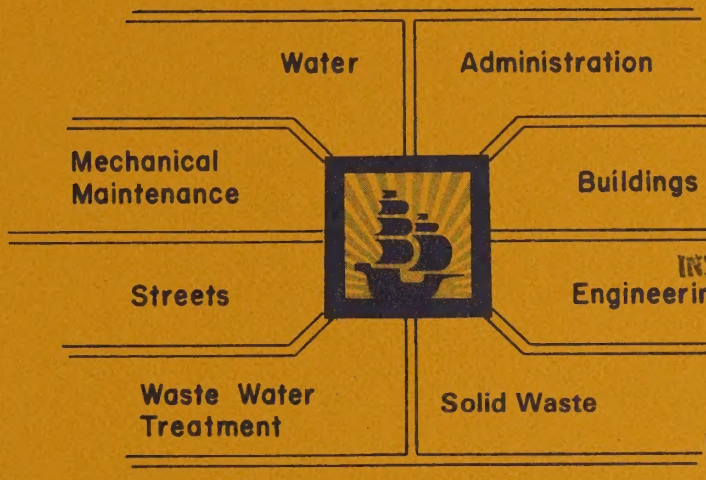
Department of
Public Works



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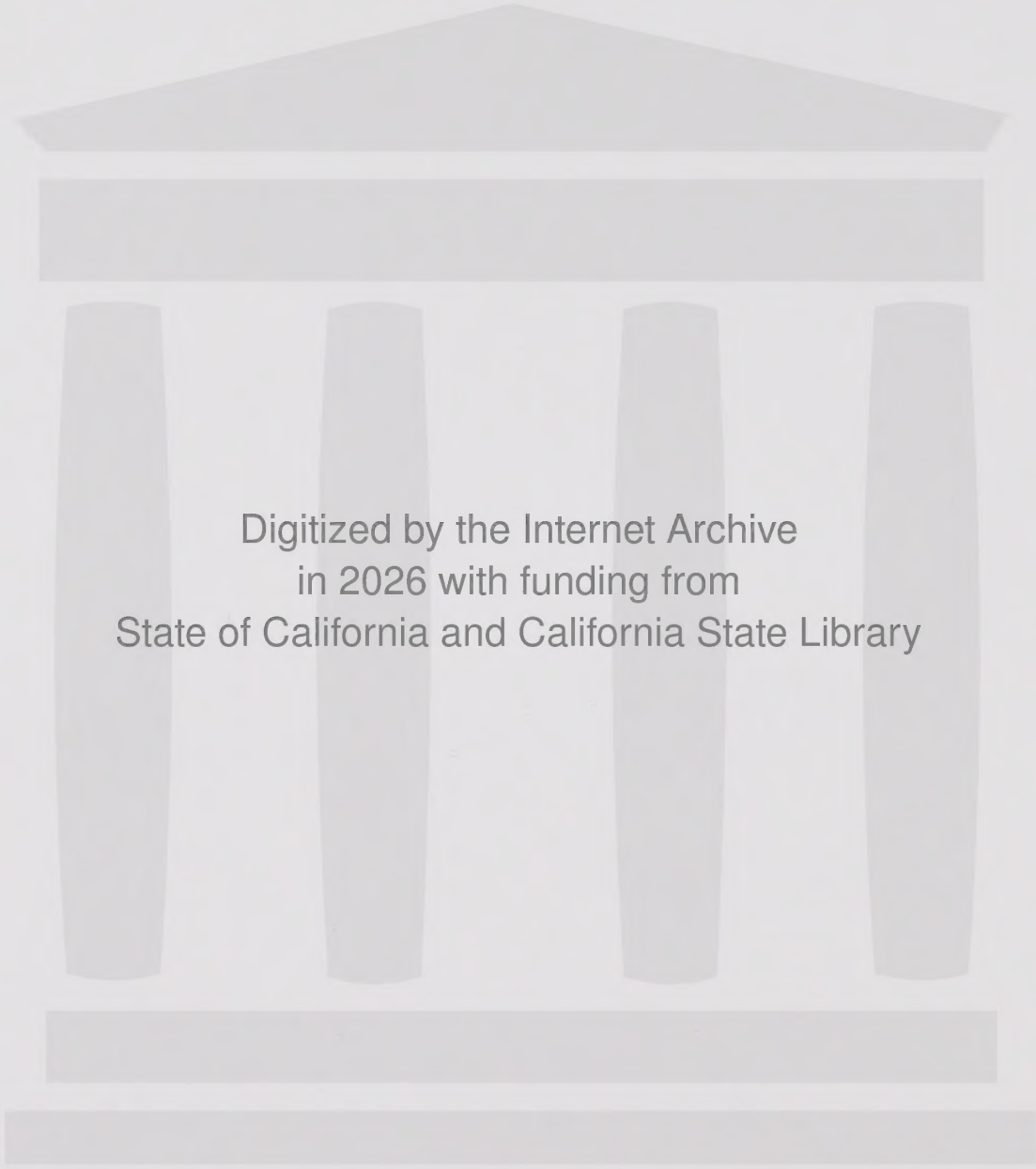
City of Santa Maria



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June 27, 1990

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PUBLIC WORKS ANNUAL REPORT FOR 1988-89

You will find enclosed for your files a copy of City of Santa Maria Public Works Department Annual Report for 1988-89 dated June 1, 1990.

Janet Kalland

(Mrs.) JANET KALLAND
City Clerk

JK:fs

cc/w enclo: Ms. Dorothy V. Wells
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Department of Public Works June 1, 1990

Mr. Wayne A. Schwammel
City Administrator
City of Santa Maria
110 East Cook Street
Santa Maria, CA 93454-5190

Dear Wayne:

Transmitted herewith is this department's 1988-89 fiscal year report, which is the 19th, in keeping with our established tradition of this department. Contained in this report for recordation are the significant departmental activities which have occurred during this time period.

We have attempted to include in this report material of statistical and historical value, as well as information of personal interest.

It is appropriate here to express our appreciation to the rest of the City staff for the cooperation and assistance which contributed to our departmental accomplishments. We are even more grateful for the understanding received for our failures. We look forward to the continuing opportunity to make a contribution toward the total City government's service to its community.

Very truly yours,

Reese N. Riddiough

REESE N. RIDDIOUGH, P.E.
Director of Public Works

Attachment

FAX: Administration (805) 349-0657 Community Development (805) 928-7565 Public Works (805) 928-6632

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TABLE OF CONTENTS

	Page No.
Public Works Department Organization Chart	1
Division Activities	2
- Administration	3
- Building Maintenance	8
- Engineering	17
- Mechanical Maintenance	40
- Solid Waste	45
- Street and Sewer	55
- Wastewater Treatment	67
- Water	77
APPENDIX	
A Financial Information	A-1

Index for Figures

No.	Name	Page No.
1	Department Organization Chart	1
2	Administration Div. Organization Chart	7
3	Building Maintenance Div. Organization Chart	13
4	Building Maintenance Materials Cost for Departments	14
5	Building Maintenance Materials Cost by Work Category	15
6	Building Maintenance Materials Cost by Work Type/Cause	16
7	Engineering Div. Organization Chart	36
8	Engineering Major Activities Cost	37
9	Mechanical Maintenance Organization Chart	43
10	Mechanical Maintenance Staff Hours by Category	44
11	Solid Waste Div. Organization Chart	50
12	Solid Waste Div. Residential Tons Collected	51
13	Solid Waste Div. Miles Traveled	52
14	Solid Waste Div. Number of Accounts	52
15	Solid Waste Div. Number of Tons Hauled	53
16	Solid Waste Div. Landfill Acres Used Per Year	53
17	Solid Waste Div. Tons Received at Landfill	54
18	Solid Waste Div. Loads Received at Landfill	54
19	Street & Sewer Div. Organization Chart	63
20	Street & Sewer Div. Staff Utilization	64
21	Street & Sewer Div. Electrical Staff Utilization	65
22	Street & Sewer Div. Elect. Maintenance Support Utilization	66
23	Wastewater Treatment Div. Organization Chart	73
24	Wastewater Treatment Div. Laboratory Report	74
25	Wastewater Treatment Div. Comparative Measures of Flow and Costs of Operation	76
26	Water Div. Organization Chart	83
27	Water Div. Annual Revenue/Costs of Water Production	84
28	Water Div. Water Analysis Schedule	85
29	Water Div. System Analyses for Total Dissolved Solids	86

CITY OF SANTA MARIA
DEPARTMENT OF PUBLIC WORKS
EXISTING ORGANIZATION CHART

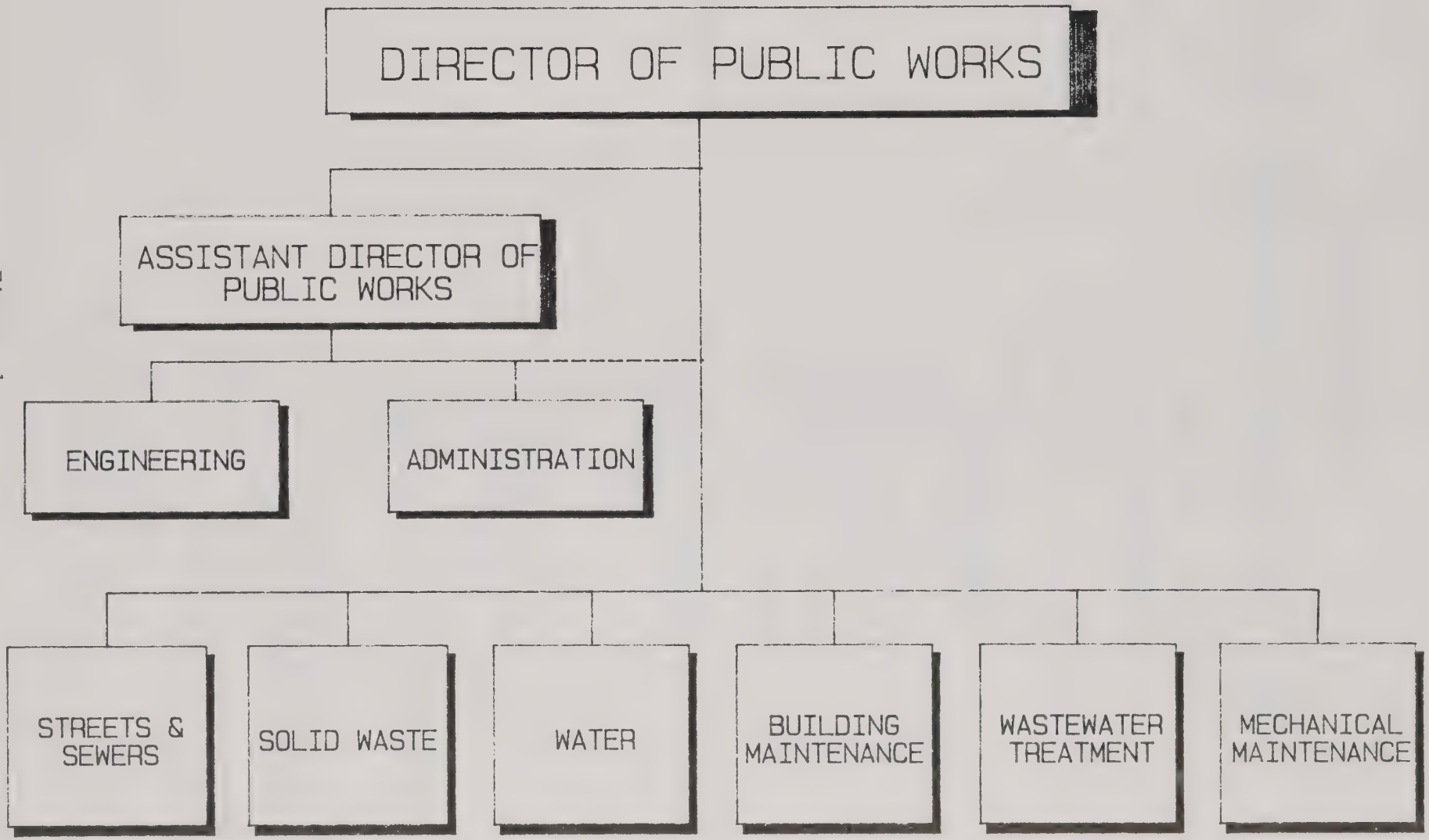


Figure 1

DIVISION ACTIVITIES

The thirty-eight functional activities of the department are assigned to one of eight divisions. Highlights of the past year regarding each of these divisions are summarized in this report.

Division	Functional Activities
Administration	1. Director/Assistant Director
	2. Secretary and Clerical
Building Maintenance	3. Maintenance and Modification
Engineering	4. Design
	5. Contract Administration (including SMAT)
	6. Advance Planning
	7. Traffic
	8. Graphics and Records
	9. Private Development
	10. R/W Property
	11. Engineering Information
	12. Drainage
	13. EIR Information Reports
Mechanical Maintenance	14. Operator Training
	15. Maintenance and Repair
	16. Preventive Maintenance
	17. Dispatching
	18. Parts and Records
Solid Waste	19. Container Collection
	20. Can Collection
	21. Disposal Fee Collection
	22. Landfill Operation
Street & Sewer	23. Asphalt, P.C. Concrete Maintenance
	24. Traffic Striping, Stencil Painting
	25. Sweeping
	26. Signing
	27. Parking - Streets and Lots
	28. Street Lights, Signals and Electric
	29. Grading Alleys and Drainage Ditches
	30. Weed Abatement
	31. Maintain Sewer Lines
	32. Stowell and Santa Maria Town Centers
Wastewater Treatment	33. WWTP Operations
	34. WWTP Laboratory
	35. Lift Stations
	36. Industrial Source Control
Water	37. Production
	38. Distribution

ADMINISTRATION DIVISION

This division, comprised of five full time employees and one permanent part time employee, is the smallest in the department. However, the role of the Administration Division plays an important part in the success of the programs/services of the other seven divisions in the department.

The primary function of this division is to provide the administrative direction and clerical support of all activities of the Public Works Department, including coordination of Program Planning, Budget Preparation and Control, Personnel Administration, Supervisory Training for Clerical Staff, Administrative Reports, Records Management Program, Investigation and Follow Up of Citizen Concerns, Word Processing, and Providing Continuity of Division Activities.

This division contributes to the final decisions in program planning, determining which new or additional projects/services should be initiated and when they should be implemented. Once all facts are gathered for the project, it is included in the fiscal budget request at the appropriate time.

Administration Division reviews and assures that the department's 15 budget requests, in addition to the four (4)-year capital improvement budgets, are accurate and completed on time.

During the past fiscal year, administration has recruited for, scheduled interviews, and processed part time employees in the Building Maintenance, Streets, Solid Waste and Water Divisions. Additionally, payroll changes were processed for 126 full and part time employees who worked in the Public Works

Department during the year. This division also conducted employee disciplinary action hearings for various employees within Public Works operating divisions and, on a continuing basis, assures that the City's policies and procedures are followed.

Administration also coordinates and schedules reports/recommendations for Council consideration and approval, assures their completeness and accuracy, and prepares the accompanying resolution/ordinance if required. The Administration Division prepares the Departmental Annual Report with input from the various divisions; prepares, reproduces and binds public contract specifications for bidding purposes, in addition to all other reports and formal documents that are initiated by the Public Works Department.

This division administers the Records Management Program with assistance and input from the various divisions. Old files are scheduled for retention, storage and eventually destruction in accordance with the time schedules outlined in the Records Manual established for the Public Works Department. Additional files are created as deemed appropriate and purged when necessary.

Administration staff, being the initial contact with the public, is the first to learn of specific concerns from citizens. After obtaining all pertinent information, an investigation is undertaken to assist the individual. If it is beyond the scope of knowledge of this division's staff member or if another division staff member may better assist the citizen, the concern is passed on to that individual who can efficiently answer all questions.

The department's entire typing workload is accomplished by the use of Word Processing through four computer terminals, connected by telephone line

to the Hewlett Packard 3000 main frame at City Hall. This has proven to be a valuable tool to maximize the available staff time and to produce higher quality work; however a number of inconveniences experienced with the system since the department is not directly connected to the main frame, such as line trouble and power surges causing delays and down time, still persist. In the future, hard wire connection with the main frame system at City Hall is planned, which should eliminate the difficulties.

Personnel Notes

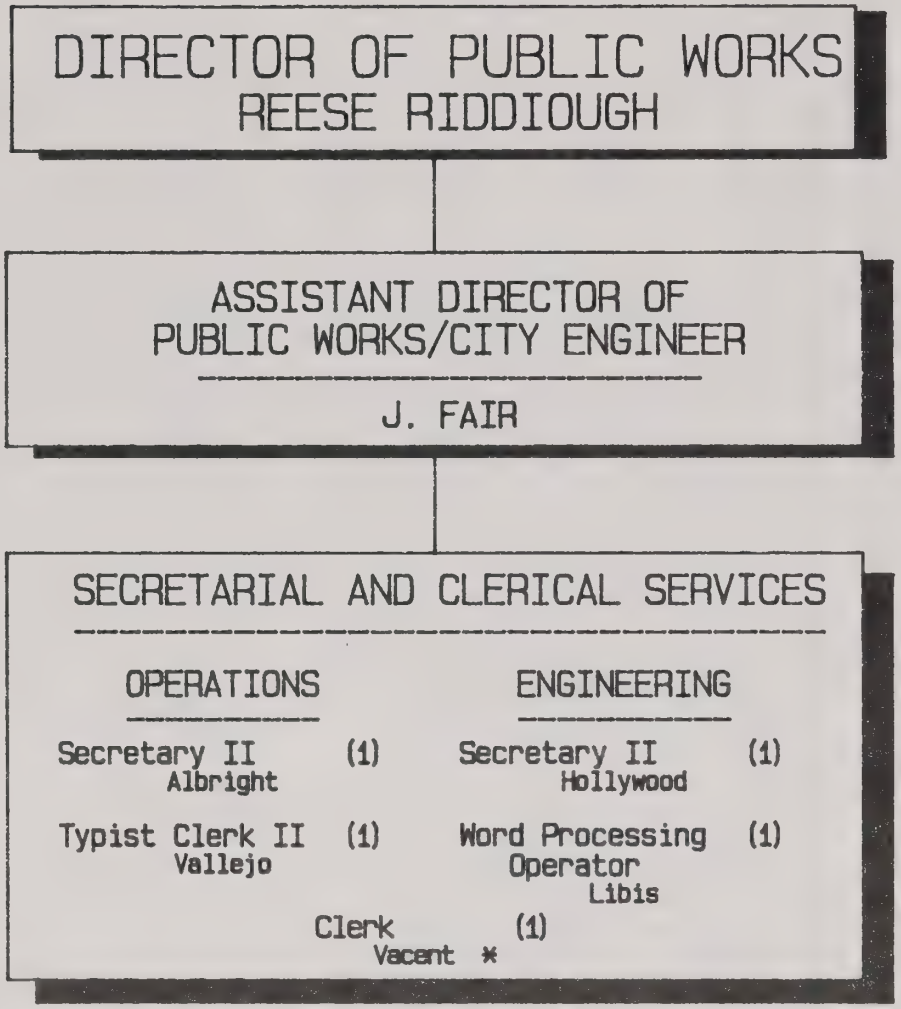
The total number of employees working in the Public Works Department in all divisions during fiscal year July 1, 1988 to June 30, 1989 was 126. Included in this figure were 95 permanent full-time employees working 40 hours/week and 31 part-time employees working less than 20 hours/week to 32 hours/week.

The number of full-time positions vacated in the department as a result of employees who left the City for personal reasons, retirement, consisted of the following:

Bldg. Maint. Supt.	Norman Anderson	Building Maint.	08/01/88
WWTP Supervisor	Russell Jakobson	WWTP	10/22/88
Crew Leader/Maint. Spec.	William Meider	Building Maint.	11/26/88
Mechanical Supervisor	George Merino	Mech. Maint.	12/31/88
Front End Loader Oper	Ernest Anaya	Solid Waste	03/31/89
Crew Leader/Maint. Spec.	Craig Lamond	Building Maint.	04/08/89
Crew Leader/Maint. Spec.	William Schaefer	Building Maint.	05/27/89

The above constitutes a turnover rate of 7.4% for all employees who left the Public Works Department during the fiscal year. In addition to the departure of the above employees, there has been the normal turnover in the part time category.

CITY OF SANTA MARIA
DEPARTMENT OF PUBLIC WORKS
ADMINISTRATION DIVISION
EXISTING ORGANIZATION CHART
JULY 1989



* Permanent Part Time

Figure 2

BUILDING MAINTENANCE DIVISION

The Building Maintenance Division has the responsibility for maintaining twenty-eight City facilities and insuring that each facility is maintained in a presentable and safe condition. These responsibilities include, but are not limited to, both interior and exterior of buildings, maintaining a scheduled painting program, addressing plumbing maintenance needs, performing repairs and alterations to electrical systems, maintaining and repairing heating, ventilating, and cooling systems, maintaining five city-owned boiler systems, maintaining the mechanical integrity of the public pool, providing day-to-day custodial service to eight city facilities, assisting in planning and estimating costs for various building projects for all departments and providing control and supervision over informal contracts to insure that all work performed complies with City specification and applicable codes.

The Building Maintenance Division has a labor complement of superintendent (1), crew leader/maintenance specialist (3), laborer III (2), maintenance worker II/custodian (2), and part time custodians (10) for a total labor force of 480 hours per week.

The weekly custodial maintenance hours have been increased by 21 hours over last year due to the elevated usage of City facilities by the public and new City employees.

The custodian supervision hours have been increased by one hour over last year to allow the supervisor adequate time to visit each facility.

IMPLEMENTATION OF NEW PROGRAMS

Fire Extinguishers

A facility fire extinguisher maintenance and check program has been implemented throughout the City. Through the combined efforts of local fire protection officials and building maintenance personnel, this program was designed to comply with State and local fire codes. The new system enables this division to have pinpoint control and maintenance over all building fire extinguishers to assure proper operation when needed.

Rain Gutters, Down Spouts, Roof Drains

In past years during the rainy season, building maintenance has been over burdened with leaky roofs. In most cases, it was found that inadequate roof drainage was the cause. As of August 1988, Building Maintenance Division inspects, cleans, and clears any blockage in down spouts, gutters and roof drains prior to the onset of rain. Even though the 1988-89 rainfall was below average, this division reports a 50% decrease in leaky roof problems.

On-the-Job Accident Procedures - Part Time Custodians

The Building Maintenance Division has implemented a simplified on-the-job accident reporting procedure to be used by part time custodians who work before or after regular working hours.

The program covers all guidelines set forth by CAM 78-10 and adds some additional procedures. The program was designed because the majority of custodians, due to their working hours, have no immediate contact with their supervisor. These procedures are posted in every custodian closet and are reviewed with each new custodian to assure their understanding.

Custodial Operating Procedures

The Building Maintenance Division has drawn up and implemented a set of operations and procedures for part time custodian personnel only. These procedures include many of the standards outlined in the operations and procedures for full time employees. It also covers a supply ordering program that gives each custodian the responsibility of ordering and keeping a 2-4 week supply of custodian materials on hand at all times.

This program has eliminated the need for a CL/MS to do the ordering, pick up and delivery of custodial supplies. Under the new system, custodians make out their own stores requisition and forward them through inner-City mail to the city warehouse. The warehouse fills the order and delivers the materials to each facility when making other warehouse deliveries.

There has been an additional digit added to the custodian account numbers to identify each facility separately. This will aid this division in tracking supply usage.

HIGHLIGHTS OF TASKS COMPLETED FOR FISCAL YEAR 1988-89 ARE AS FOLLOWS:

Painting

1. Exterior of DeJoy Lift Station.
2. Interior of Guadalupe Library.
3. Apply vandal guard to 300' of block wall, Railroad & Morrison.
4. Interior walls and ceiling, exterior trim Fire Sta. #3.
5. Interior walls and ceiling; refinish kitchen cabinets, Fire Sta. 1.
6. Set up and supervise painting contract for 615 S. McClelland.
7. Interior walls and ceiling, Police Station.

Carpentry

1. Remodel of City Admin. office to include painting and new carpeting.
2. Remodel of break room into an office at Fire Sta. 1.
3. Remodel of City legal offices to include painting, new carpeting and new drapes.
4. Build and install metal swing gates for security, Veterans Center.
5. Remodel of counter tops for dispatch center at Police Station.
6. Remodel Police annex laboratory and install new lab equipment.
7. Remodel of clerk's desk and counter area in Council Chambers.
8. Remove and replaced termite damaged flooring in the Vets Center tower.
9. Building and installation of new cabinets and counter tops for Finance Department.
10. Remodeled book check out counter at main library.
11. Remove and replaced termite damaged post end beams in patio area at Vets Center.

Roofing

1. Installed new cold mop roofing materials on the roof of the Vets Center tower.
2. Repaired roof and replaced damaged gutters at 615 S. McClelland.
3. Replaced 400 broken tile and repaired leaks on the City Hall roof.

Plumbing

1. Installed new water heater in Simas Park snack bar.
2. Installed new water heater at Police Station.
3. Removed and replaced old damaged cold water supply at Public Works office.

Heating, Ventilation, Air Conditioning (H.V.A.C.)

1. Upgraded the heater controls on the gym heaters at Minami Center.
2. Set up and supervised the contract for new heating system in the Mechanical Shop.

3. Rezoned the heating and cooling system at Police Station.
4. Replaced compressor for A/C unit at Wastewater Plant.

Electrical

1. Repaired safety and code violation in the lapidary shop at Mussell Center.
2. Corrected and repaired electrical in Legion bar area at Vets Center.
3. Installed new exit fixtures throughout main City library.
4. Installed new fluorescent fixtures in entry hall, main City library.

Contract Services

1. Set up and supervised police and fire annex termite contract.
2. Set up and supervised recarpeting contract for City Council Chambers.
3. Set up and supervised the termite contract for Vets Center.
4. Set up and supervised the main Library recarpeting contract which included the remodel and replacing of 100,000 volumes of books.
5. Set up and supervised the termiting contract for Hart House.

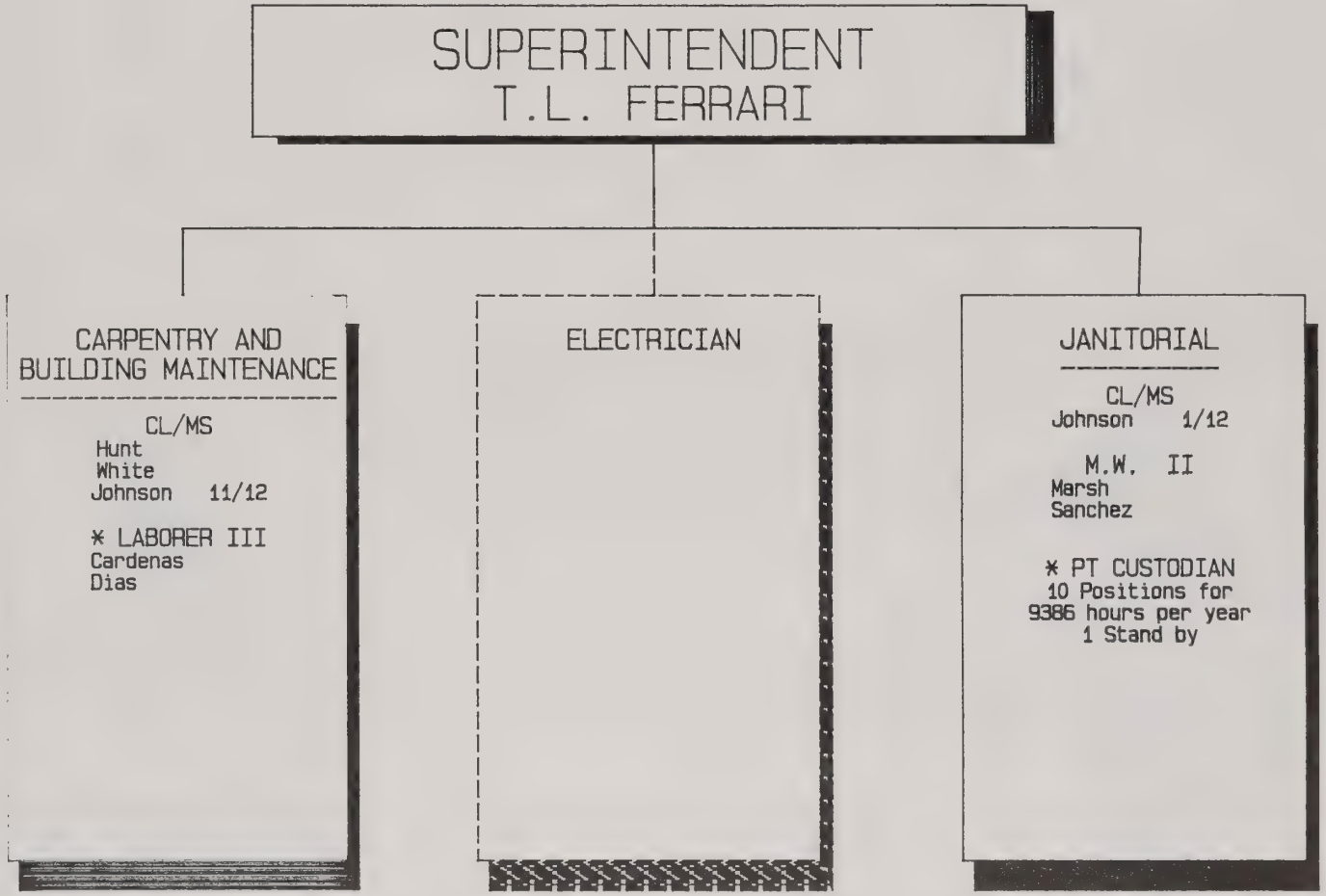
Special Services

1. Installed new mic booms in City Council Chambers.
2. Installed hand rails on basement stairs at City Hall (safety).
3. Ordered and installed approximately 400 "no smoking" signs through City facilities to comply with CAM 88-1.
4. Purchased and installed 19 exterior cigarette urns throughout the City facilities.

Tools and Equipment

1. Purchased a high pressure washer for paint preparation and H.V.A.C. services.
2. Purchased a compact personnel lift (safety).
3. Outfitted the shop service van with metal organizing bins.

CITY OF SANTA MARIA
DEPARTMENT OF PUBLIC WORKS
BUILDING MAINTENANCE DIVISION
EXISTING ORGANIZATION CHART

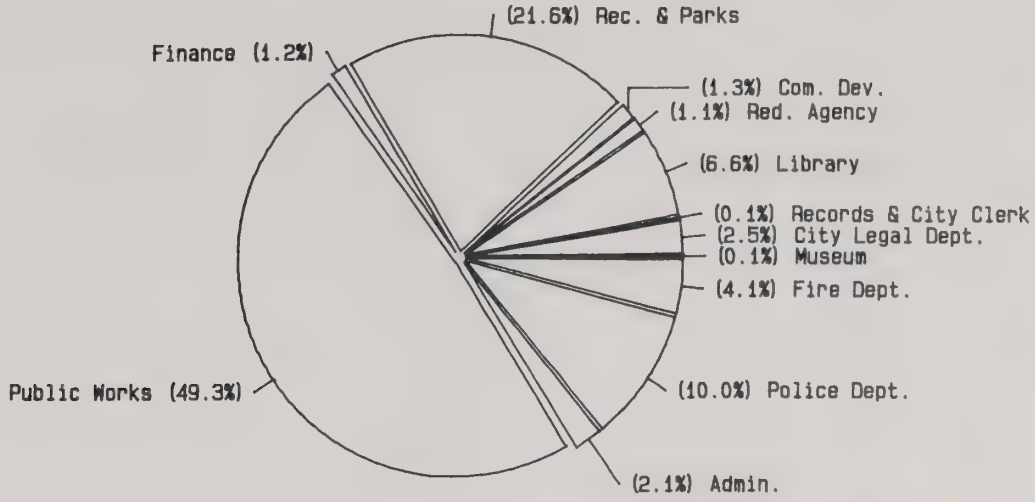


* Part-time

Figure 3

CITY OF SANTA MARIA

BUILDING MAINTENANCE DIVISION
WORK PERFORMED FOR DEPARTMENTS
Materials Cost



TOTAL COST= $74,258.18

Total Hours

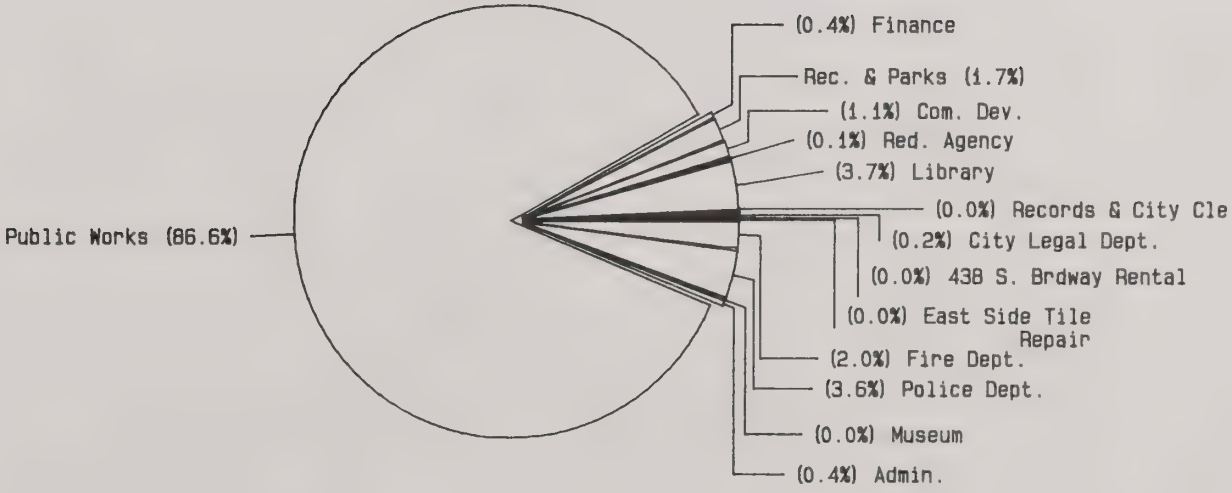


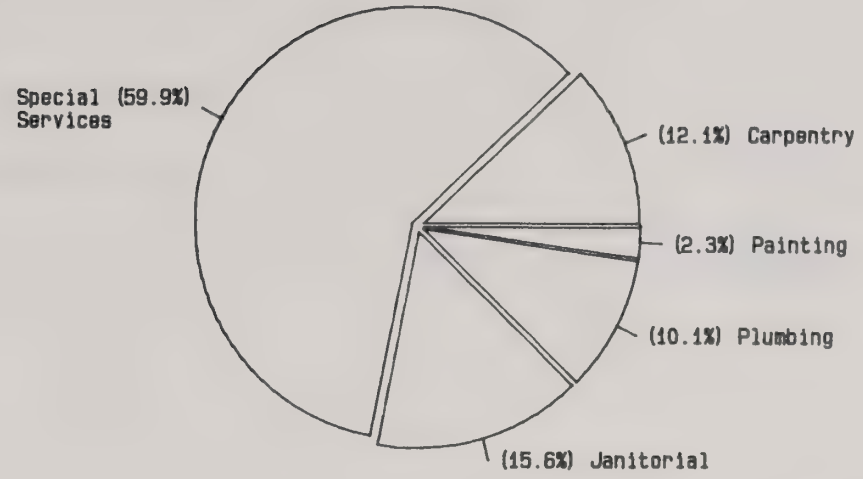
Figure 4

TOTAL= 21,547
(Incl. 212 Borrowed Time)

ARBMD (11, 12)

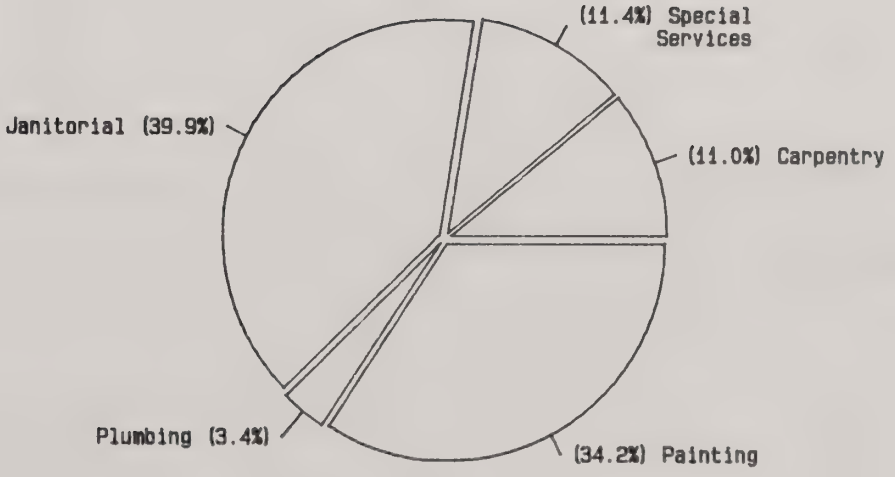
CITY OF SANTA MARIA

BUILDING MAINTENANCE DIVISION
WORK CATEGORY PERFORMED
Materials Cost



TOTAL COST= $74258.18

Total Hours



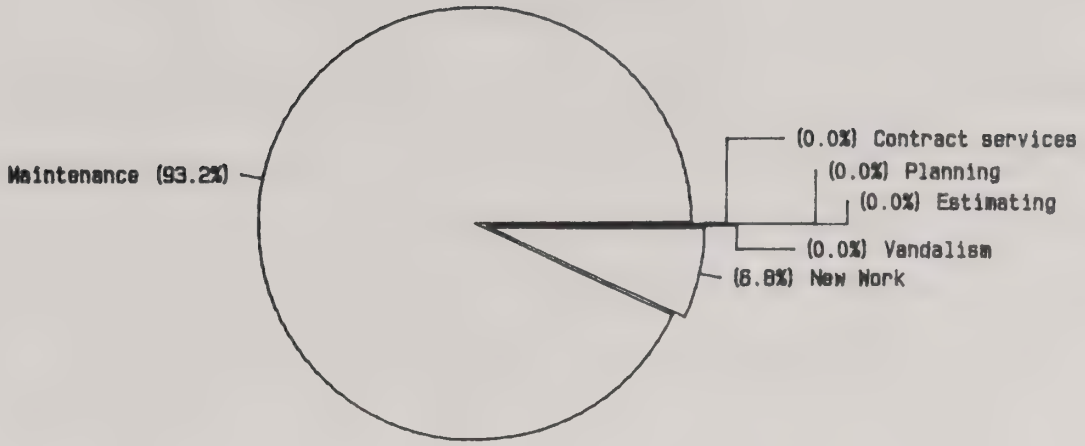
TOTAL= 21,547
(Incl. 212 Borrowed Time)

Figure 5

ARBMD (21, 22)

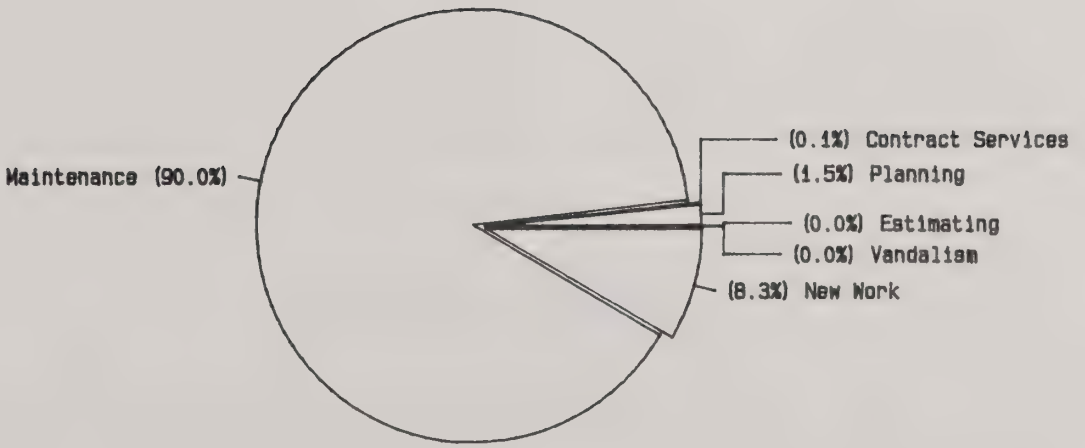
CITY OF SANTA MARIA

BUILDING MAINTENANCE DIVISION
WORK TYPE/CAUSE PERFORMED
Materials Cost



TOTAL COST= $74258.18

Total Hours



TOTAL= 21,547
(Incl. 212 Borrowed Time)

Figure 6

ARBMD (31, 32)

ENGINEERING DIVISION

Organization and Resources

The Engineering Division provided design engineering and construction engineering services as needed for planning, design and construction of public facilities. The division has a personnel complement of twelve full-time employees (including the Assistant Director of Public Works) and one part-time employee. Figure 7 indicates the division's organizational structure and the personnel assignments.

During the past year some reclassifications of personnel in the Division took place. The Assistant Civil Engineering positions were reclassified to Assistant/Associate Civil Engineering, thus providing a career ladder in the professional engineer series. Also, the Assistant Director of Public Works was given the additional title and responsibility of City Engineer.

Figure 8 shows the major activities of this division with respective approximate costs as a percentage of the division's total salary allocation. The total amount includes regular, overtime and part-time salaries. The total salary expenditure for the 1988-89 fiscal year was $419,576. Total authorized two year operating budget for years 1988-90, $830,754. The 1988-89 allocation of $ 421,080 was 99% expended by June 30, 1989.

Development and Planning

This section's report opening sentence has read the same the past few years and once again is restated: Private development activity continues to remain at high levels. As the City continues to expand its boundaries,

development activity has increased and it is expected that the volume will remain high for the foreseeable future.

The estimated total cost of public improvements, due solely to new subdivisions recorded in the 1988-89 fiscal, totals over 3.5 million dollars.

The subdivision activity report below does not include the development of 33 mobile home lots at Casa Grande nor the 210 mobile home lots at Rancho Buena Vista.

This section is responsible for the Public Works Department requirements related to private development, research and preparation of Subdivision Reports, General Plan amendments, Zoning Actions, Use Permits, Environmental Clearance Applications, Variance Permits, Building Site Reports, Drainage, Grading Plans, Plan Checking Public Improvement Plans and Final Maps, Subdivision Agreements, Easements, Abandonments, Advance Planning Issues, Outside Users Agreements, Lot Line Adjustment Reviews, Engineering Forms, and Check Lists.

Private development and subdivision activity shown on Figure 8 include:

1.	Annexations (#77 & 78)	2
2.	General Plan Amendments	6
3.	Zone Change and Planned Development Permits	33
4.	Use Permits	32
5.	Environmental Clearance	36
6.	Building Site Reports	201
7.	Grading Plans	30
8.	Easement/Abandonment Submittals	52
9.	Lot Line Adjustment Submittals	26
10.	Reimbursement Maps/Agreement Submittals	5
11.	Outside Users Agreement	2
12.	Subdivision Committee Reports	21
13.	Public Improvement Plan Submittals	98
14.	Final Map Submittals	66
15.	Subdivisions Recorded	19
16.	New Lots: Residential (3 lots for Condo purposes)	235
	Commercial	20
	Industrial	6
	Open Space	2

As recorded by this office, rainfall for the 1988-89 season was 6.18 inches which is well below the 22 year average of 12.57 inches for the city.

Capital Improvement

Engineering projects shown on Table 1 include projects that were completely designed within the 1988-89 fiscal year. These projects had a set of plans, specifications, and estimates prepared or reviewed by this division. There were 14 projects prepared within this fiscal year having an approximate total value of 4.5 million dollars.

Noteworthy projects during this year were the Hagerman Softball Complex and the Extension of Depot Street from Morrison to Stowell. The softball complex required two projects be prepared. The initial project allowed access to the site by constructing a large box culvert across a storm drain channel and provided for signalization of the main entry way. The second project consisted of the construction of four tournament level softball fields and a related activities center. The extension of Depot Street from Morrison to Stowell had been contemplated since the early 1960s. The project required the modification of a trailer park and certain facilities belonging to the Santa Barbara County Fair.

This section spent considerable effort preparing for two future projects. Town Center East is preparing to add 180,000 sq. ft. of commercial space. This additional space required the preparation of parcel maps, agreements, building pads and provisions for a future parking structure and modifications to adjoining roadways. Also, the services of an architectural firm were engaged to prepare for a Civic Center Expansion. This required the preparation

of Requests for Proposals, interviews of the respondents to said requests and selection of the successful firm.

Construction Management

Projects constructed during the reporting period are shown on Table 2. These projects were constructed and the contracts administered during the 1988-89 fiscal year.

Noteworthy projects constructed during this year include the addition to the Police property room, Street Reconstruction 1988, Water Line Project 1988, and the final phase of Demolition for the West Side Redevelopment Project.

Private development construction is reviewed and inspected by the staff of this division. Initiation of private construction is accomplished by encroachment permit or subdivision map recordation and posting of bonds. Total amount collected for 218 issued encroachment permits for fiscal year 1988-89 amounted to $ 73,273.44. Income received from sale of standard specifications and drawings, contract plans and specifications and miscellaneous amounted to $ 3,276.10.

The City Standard Specifications and Drawings are available through the office of the City Engineer, 705 W. Cypress Street. The updating of these items is an ongoing process and reflects the changes in the construction industry. One specific item of note was the change on the standard pipe for use in the City water system. Polyvinyl Chloride pipe has replaced Asbestos Cement pipe for the construction of City water mains.

Activity related to both the Westside Redevelopment Project and the Town Center East expansion have increased the workload and the contract staff of

this section. The first and largest phase of the Westside Redevelopment Project was substantially completed in 1987-88 fiscal year. Included within the project area were the Mervyns Store, the Westside Developers shops, the General Telephone Company and the First Methodist Church.

Traffic and Transit

Traffic and Transit activity shown on Figure 8 includes the staff work for the Traffic Committee, private developments, design review, Santa Maria Area Transit, transportation planning, traffic operations, traffic studies and department administrative support services.

The Traffic Committee work consists of engineering studies involving traffic counts, speed surveys, accident records and related research and drafting. The Transportation & Planning Engineer acts as the secretary for the committee and conducts the monthly meetings along with preparing the agenda/minutes, correspondence, memoranda, resolutions, reports to the City Administrator, and meeting with the public. The engineering staff also supports the City Attorney and Risk Manager by preparing reports on claims against the city involving traffic control devices and street and intersection design. Traffic committee activity included:

1. Curb zone and parking investigations.....18
2. Intersection studies.....23
3. Miscellaneous traffic controls..... 7
4. Developments and building sites.....2
5. Speed Zones.....8

Private developments which are estimated to generate significant new trips are required to conduct traffic and circulation impact studies. The reports include, among other things, the existing, new and cumulative traffic

projections along with mitigation measures where the levels of service need improving. Several reports were completed or initiated for major developments including the Santa Maria Airport District.

During the fiscal year, this section continued to assist the Community Development Department and the consultants to update the Circulation and Land Use Elements of the General Plan.

Departmental support services included the administration of FAU funds, budget review, Measure 'D' funds, special Area Planning Council projects and meetings.

The Engineering Division continued to provide the administrative and management functions for Santa Maria Area Transit. The annual report for the transit service system has been included in this report for the reader's benefit.

SANTA MARIA AREA TRANSIT

ANNUAL REPORT

FISCAL YEAR 1988-89

PREPARED FOR

SANTA MARIA

CITY COUNCIL

Prepared by:

Engineering Division of the

Public Works Department

and

Santa Maria Organization of

Transportation Helpers

SUMMARY

Ridership, Fare Revenue and Expenditures

Fixed Route/Orcutt Shuttle

As anticipated, the fixed route system exceeded the State's required fare box ratio of 20% and ended the fiscal year with a fare box ratio of 21.6%. As reported in previous quarterly reports, this accomplishment would not have been possible without the Council's approval of the fixed route's modifications (Crain Study) in 1987, acceptance by the public, the new operations contract with SMOOTH, and City and SMOOTH staffs efforts to improve the transit service.

As shown on the attached exhibits the statistics and performance indicators are the best ever recorded in the system's history. The month of May had the highest passenger count of 17,252 and exceeded the previous high of 16,031 in March. The month of May also had the highest count for regular paying passengers.

Demand Response/Elderly and Handicapped

This service ended the fiscal year with a fare box ratio of 8.6% and less then the State's required 10%. There is, however, an exemption of the 10% requirement that can be approved by the Area Planning Council. The exemption is allowed when a service is expanded as did this service when a third vehicle was added in the latter part of 1987. The City will request the exemption for the 1988-89 fiscal year.

The Area Planning Council's contract with a consultant to update the Short Range Transit Plan, will include a separate study on the current demand response operations. The study results could include more efficient scheduling of clients and recommendations to improve the fare box ratio.

Special Health Service

This service, which provides transportation to medical facilities in the Santa Barbara area, continued to operate in a satisfactory manner. The participating agencies of Santa Maria, Guadalupe, Lompoc and the County have agreed to continue the service and are providing their share of costs.

The fare box ratio for the fiscal year ended at 21%.

Contractor Activities

SMOOTH fulfilled their contract requirements in a satisfactory manner thru the fiscal year including a very productive year for the fixed route system. SMOOTH submitted all their required monthly reports on a timely basis. Staff's review of these reports indicated no major problems and SMOOTH was able to resolve all issues regarding complaints and requests. Service delays were at acceptable levels during the third quarter.

Staff Activities

The engineering staff's work included the contract administration and related Urban Mass Transportation Administration documents of the SMAT transit system and the two capital projects of constructing bus turn outs and the purchase of two replacement buses. The new buses are in service and the bus turnout project is in the construction stage. The Mechanical Division maintained all the buses with no major problems or interruptions of service and the Finance Department supported this division with all financial reports required for the SMAT system.

System Operations

The day to day operations of the SMAT system during the fiscal year performed in a satisfactory manner. Interruption of service was minimal due to defective equipment. The year saw only a few minor accidents involving buses with no related problems. Complaints and requests involved operational procedures and were resolved by the SMOOTH staff. The assignment of the replacement bus, which can accommodate 20 seating passengers, to Route 1 eliminated complaints of leaving passengers at bus stop.

TRANSIT SYSTEM ACTIVITIES

Ridership, Revenue and Expenditures

Fixed Route/Orcutt Shuttle

Ridership

The attached exhibit "A" show the statistics and performance indicators for fiscal year 1988-89. Exhibit "B" shows the number of passengers for each of the fixed routes. The graph indicates that May had the highest recorded monthly passenger count of 17,252. Ridership for the year was 180,677 passengers. Exhibit "C shows the number of passengers for each type fare classification.

Revenue/Operating costs

The fixed route fare revenues posted $90,010 with operating costs of $415,795 for the fiscal year. The fare box ratio for the fiscal year 21.6%.

Demand Response/Elderly Handicapped

Ridership

Ridership for the fiscal year was 19,319 passengers. The monthly counts continue to remain constant.

Revenue/Operating Costs

Demand response had operating costs of $146,537 with fare revenues of $12,684 and fare box ratio of 8.6% for the fiscal year.

The fare revenues also continue at a constant monthly rate and did not meet the to State required fare box ratio. The previously mentioned study by the Area Planning Council's consultant will include recommendations to improve on the fare box revenue.

Special Health Service

Ridership/Revenue

This special health service bus that goes to Santa Barbara twice a week continues to operate in the same satisfactory manner month after month. Ridership and revenues are essentially the same every year and quarter.

Total Transit System Expenditures

The year end accounting of the system is as follows:

Item	F.R./S.	D.R.	H.S.	TOTAL
Contract	$308,203	$117,775	$17,529	$443,507
Insurance	31,825	10,758	2,214	44,824
Fuel/Lub	27,364	7,043	2,253	36,659
Veh.Maint.	68,016	17,667	5,696	91,379
Sign Maint.	1,319	0	0	1.319
City Adm.	10,020	3,820	680	14,520
Misc.	874	233	78	1,184
Totals:	$415,795	$146,537	$26,235	$588,568

Revenue of the total system:

Fares	$108,290
TDA Funds (State)	240,139
UMTA (Federal)	240,139
Total:	$588,568

CONTRACTOR ACTIVITIES

Contractor Operations

The SMOOTH staff at the end of March, 1989 included 2 supervisors, 3 dispatchers, 23 bus drivers, 1 bus porter, 1 clerk-typist, and 1 bookkeeper. The year ended with Nancy Poultney leaving her post of Executive Director of SMOOTH. Nancy was replaced with Bettye Fisher who previously was head of transportation for the Santa Maria High School District. During the fiscal year there was a normal rate of employee turn over and operations continued with no interruption of service. On January first all the drivers were required by new state laws to take additional training and to qualify for driving the larger capacity replacement bus. Evaluations, driver licence and traffic citation checks were made for each new employee. Although the new federal regulations regarding drug testing for personnel involved in transporting passengers does not start until December, 1990 SMOOTH has had a drug testing program in effect for one year. Compliance with the federal regulations will, therefore, be no problem for SMOOTH personnel.

Marketing

A summary of marketing activities for the fiscal year include the following:

Bench advertising program by Consultant
Bartering with radio stations for ads of buses
Public service announcement on KSBY-TV for demand response
Ad space purchased in spanish "yellow pages"
60 signs ordered advertising SMAT fixed route on benches
Ad space purchased in "Cinco De Mayo" brochure
S.M. Times St. Patricks advertisement.
Marketing Plan completed
Booth at S.B. County Fair
Advertising jingle
Purchased 20 benches
Bi-Lingual brochures completed for Demand Response Services

SMOOTH continued with their public relations program which included attending meetings of social and club organizations, public agencies, and other relevant councils and associations.

STAFF ACTIVITIES

The engineering division continued to monitor and administer the SMAT operations along with required assistance to the Area Planning Council and meeting UMTA requirements. Problems in satisfactorily completing the UMTA "504" Handicapped Persons and Disadvantaged Business Enterprise Programs has hindered the City from receiving their federal assistant funds. Staff is currently in the process of receiving outside assistance in completing and meeting all the federal requirements for these programs.

The bus pull out Project along Broadway is under construction at four locations and proceeding as scheduled. The two replacement buses are now in service. The modified van was assigned to Demand Response and has four wheelchair positions to accommodate the frail and handicapped. The second bus has a larger seating capacity of 20 passengers and was assigned to Route 1 which serves the busiest route between the Town Center and old Orcutt.

Staff and SMOOTH made changes involving minor route corrections to avoid congested intersections along Route 1. Improvements could result in providing more time to meet the schedule stops.

The Area Planning Council contracted with a consultant to complete a State required Performance Audit of SMAT for the past three fiscal years. The audit was completed during the third quarter and the preliminary findings indicated the fixed route service is doing very well after the service changes were initiated.

SYSTEM OPERATIONS

Bus Maintenance

Other than the previously reported chronic heater, transmission and differential problems that were resolved by the Mechanical Division there were the routine maintenance either in house or by outside contractors. Maintenance of the wheel chair lifts on all the buses were completed with no major breakdowns reported.

This department has received many compliments regarding the new bus colors of white, blue and gold along with the new graphics and lettering. Work began on repainting all the buses and should be completed by September, 1989.

Service delays/missed trips

SMOOTH provided a monthly list of missed trips and service delays for the fiscal year and as reported in previous quarterly reports the delays were very minor and continue to be approximately 0.5% of the total time for the fixed route service.

During the fiscal year SMOOTH received requests for services not provided by SMAT. These involve bus service to other cities, Sunday service, or early or late hours.

Accidents

There were five reported incidents during the fiscal year. With the exception of one involving an injury to a driver they were all considered minor with only minor damage to the buses.

Requests/Complaints

All the complaints and requests handled by SMOOTH during the fiscal year were for operational procedures and required only routine follow-up by SMOOTH or City staffs.

Attachments:

Exhibit "A"	*Fiscal Year Stats*
Exhibit "B"	*Passengers by Each Fixed Route*
Exhibit "C"	*Fixed Route Ridership*
Exhibit "D"	*Comparison of Previous Fiscal Years*
Exhibit "E"	*Bus Fleet Inventory*

SMAT OPERATION STATISTICS AND PERFORMANCE
88/89 FISCAL YEAR
YEAR TO DATE 6/30/89

	FIXED ROUTE	DEMAND RESPONSE
VEHICLE SERVICE MILES	233,875	61,207
PASSENGERS	180,677	19,319
SERVICE HOURS	16,362	6,032
FARES	$ 90,010	$ 12,684
NET OPERATING COST	$ 415,795	$146,537
RATIO - FARE BOX TO OPERATING COST	21.6%	8.6%
OPERATING COST PER PASSENGER	$ 2.33	$ 7.59
OPERATING COST PER MILE	$ 1.77	$ 2.39
OPERATING COST PER SERV. HR.	$ 25.41	$ 24.30
PASSENGERS PER SERV. HOUR	10.90	3.20

****

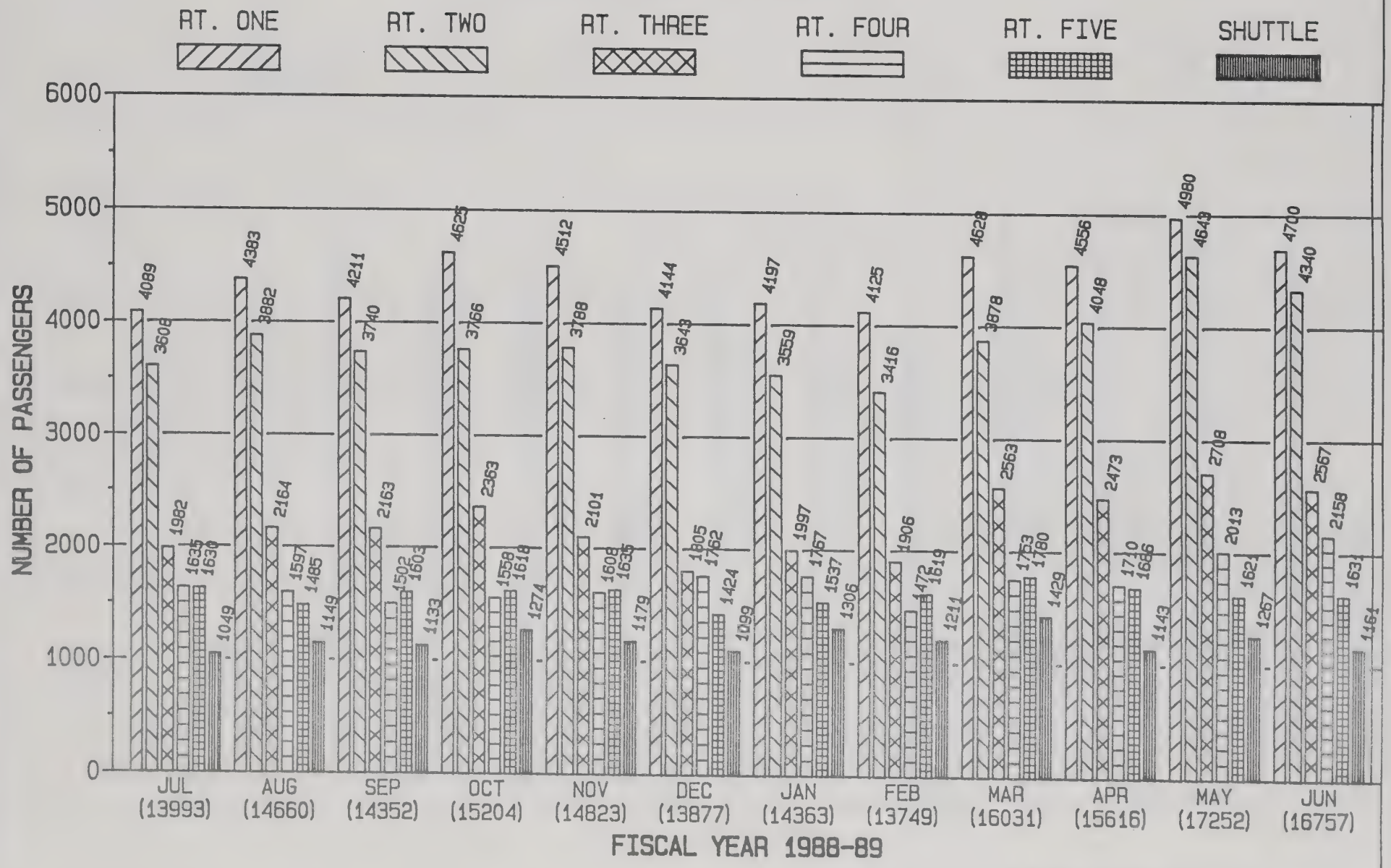
SPECIAL HEALTH SERVICE

SERVICE HOURS	927
SERVICE MILES	19,496
PASSENGERS	1,308
FARES	$ 5,597
NET OPERATING COST	$ 26,235
RATIO - FARE BOX REVENUE TO OPERATING COST	21%

STAT8889.SMT EXHIBIT A

SANTA MARIA AREA TRANSIT

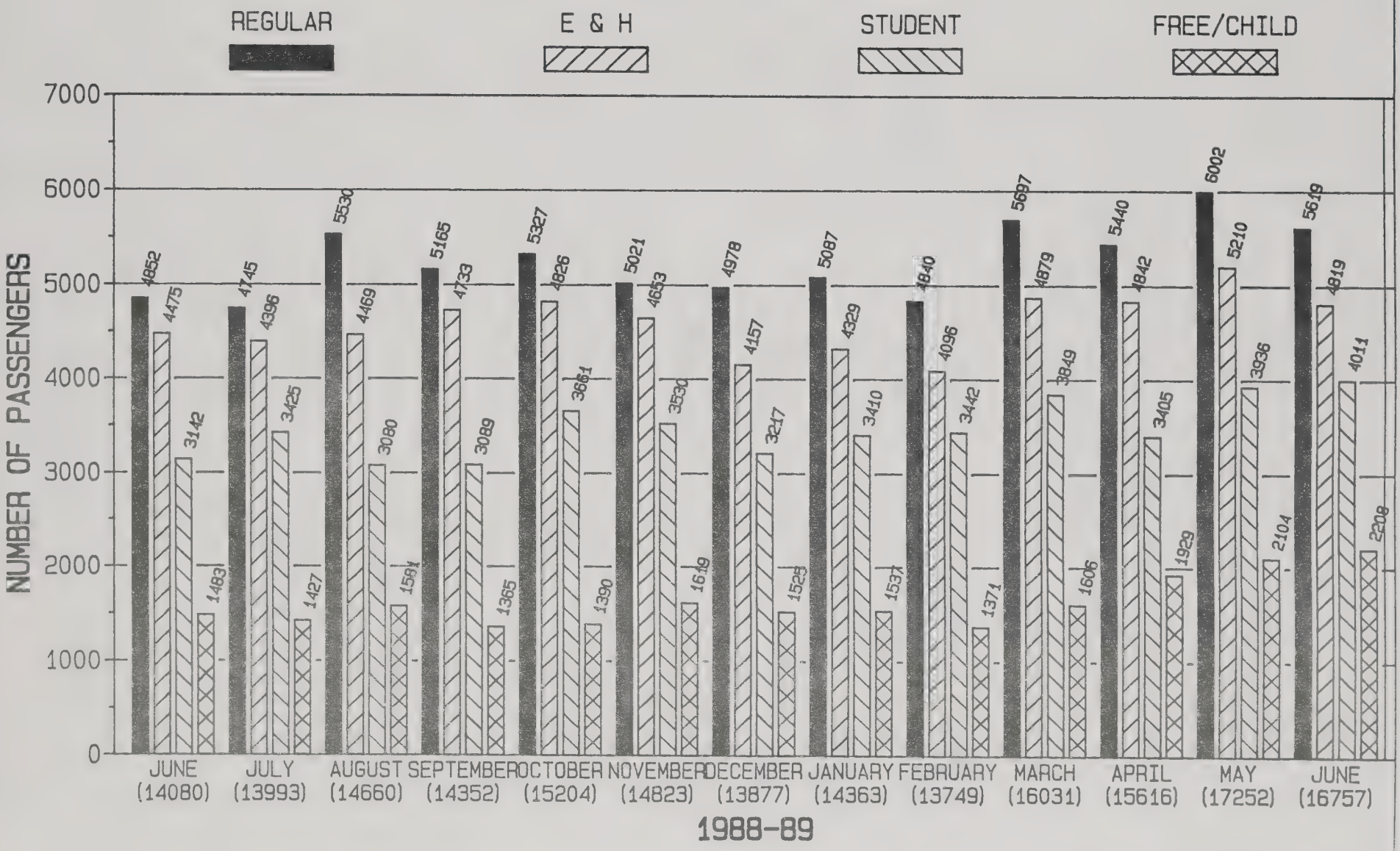
PASSENGERS BY ROUTE



Public Works Dept./Engr. Div.

FR8889

SANTA MARIA AREA TRANSIT
FIXED ROUTE RIDERSHIP



Dept. of Public Works/Engr. Div.

RID8889

EXHIBIT C

SANTA MARIA AREA TRANSIT

COMPARISON OF YEAR ENDING STATISTICS

FOR 86/87, 87/88 & 88/89 FISCAL YEARS

FIXED ROUTE SYSTEM

	86/87	87/88	88/89
NUMBER OF PASSENGERS	118,331	136,572	180,875
VEHICLE SERVICE MILES	372,274	259,004	233,875
VEHICLE SERVICE HOURS	20,944	17,441	16,362
FARES	$64,647	$67,987	$90,010

FISCAL YEAR 1987 WAS THE "OLD" SYSTEM

EXHIBIT D

SMAT

BUS FLEET INVENTORY

DATE: AUGUST, 1989

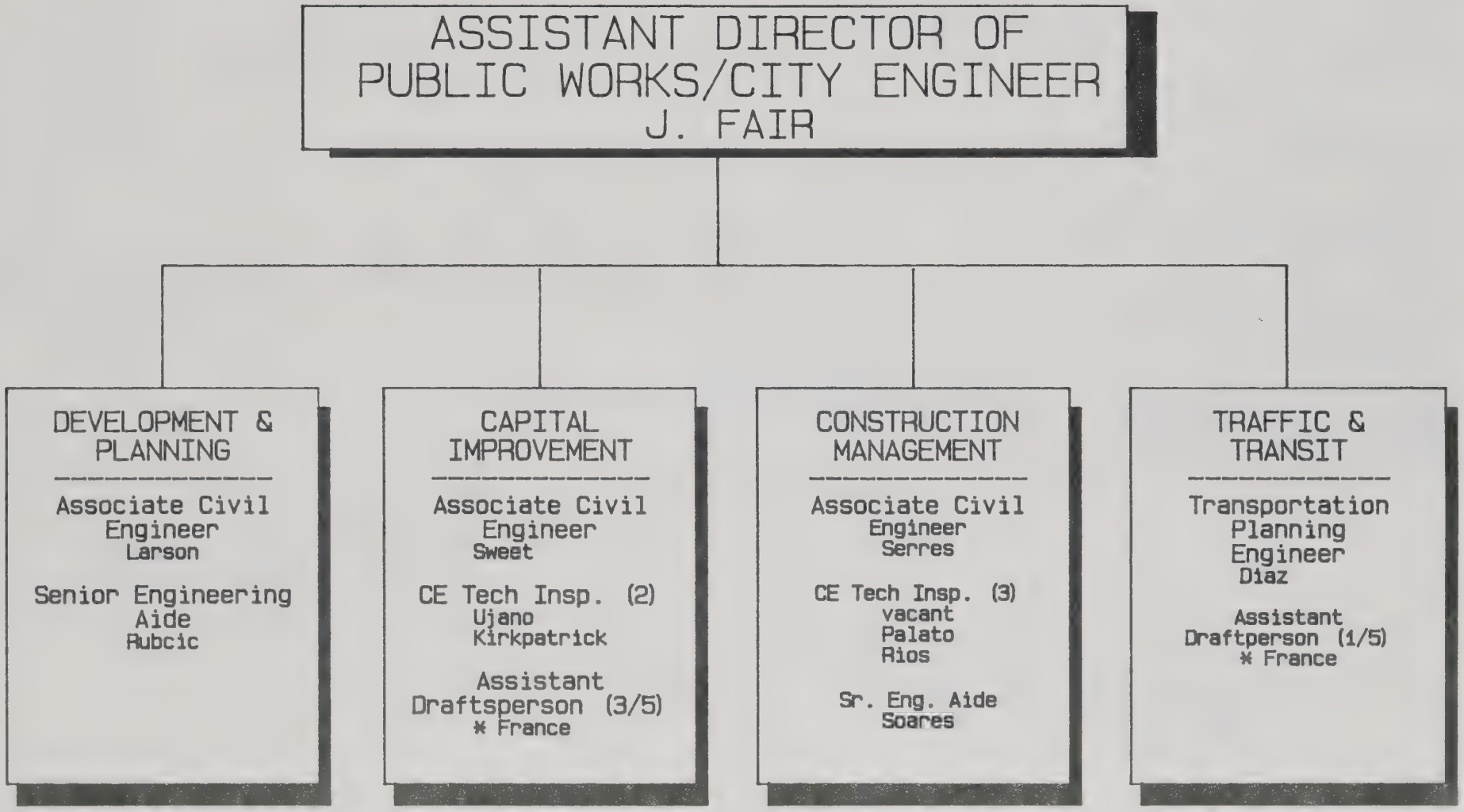
Vehicle Number	License Number	Year & Make	Number of Seats	Wheel chair Positions	Mileage	M.P.G.	Date put in service	Replacement Year	Vin Number
160	077447	1987 Champion	17	2	58,171	9.05	11/87	90/91	1FDKE3010HHB72574
161	077404	1987 Champion	17	2	67,825	7.90	10/87	90/91	1FDKE3016HHB72577
162	077420	1987 Champion	19	1	61,843	9.56	11/87	90/91	1FDKE3014HHB72576
163	469951	1985 Escort II	14	1	163,955	6.39	3/85	89/90	1FDKE30L7FHB03881
164	208580	1989 El Dorado	20 (10 Standing)	1	10,527	7.72	4/89	93/94	17N341328KW001327
165	469970	1985 Escort II	14	1	175,434	5.66	3/85	89/90	1FDKE30L6FHB03890
166	282355	1989 Wide One	9	4	5,551	8.39	4/89	93/94	2B7KB31Z8KK341410
167	077403	1987 Champion	19	1	73,673	8.67	9/87	90/91	1FDKE3012HHB72575
168	469950	1985 Escort II	14	1	165,276	4.79	3/85	89/90	1FDKE30L9FHB03896
169	469949	1985 Escort II	14	2	152,460	6.55	3/85	89/90	1FDKE30L4FHB03885
170	469974	1985 Escort II	14	2	157,679	4.99	3/85	89/90	1FDLE30L2FHB03884

Replacement Costs	Year	Number of Buses
$440,000	89/90	5
$450,000	90/91	4

EXHIBIT E

Figure 7

CITY OF SANTA MARIA
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION
EXISTING ORGANIZATION CHART
JULY 1989

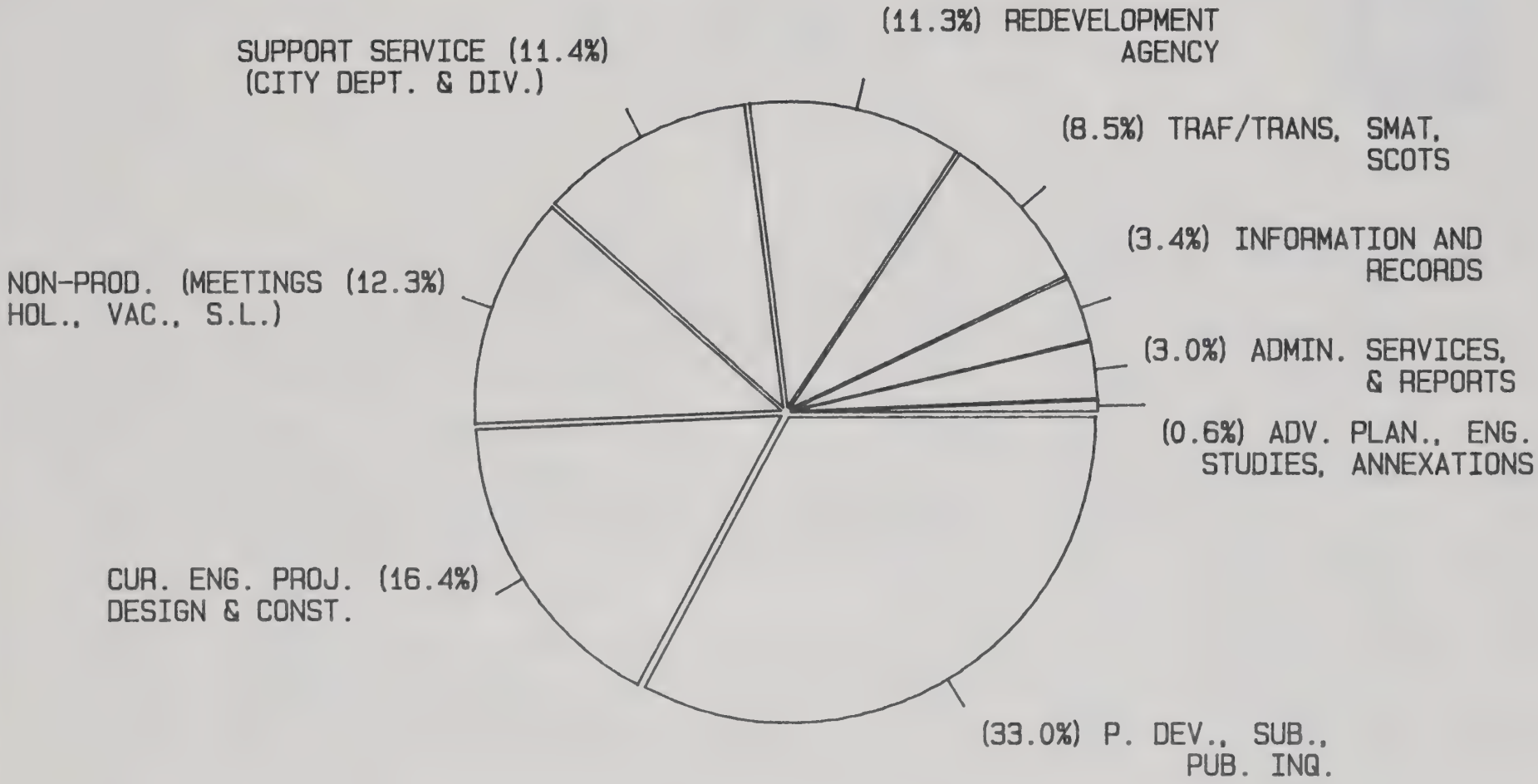


* Permanent part time

Figure 8

CITY OF SANTA MARIA

Engineering Division
Staff hour Assignments 1988-89


(11.3%) REDEVELOPMENT AGENCY
SUPPORT SERVICE (11.4%) (CITY DEPT. & DIV.)
(8.5%) TRAF/TRANS, SMAT, SCOTS
(3.4%) INFORMATION AND RECORDS
NON-PROD. (MEETINGS (12.3%) HOL., VAC., S.L.)
(3.0%) ADMIN. SERVICES, & REPORTS
(0.6%) ADV. PLAN., ENG. STUDIES, ANNEXATIONS
CUR. ENG. PROJ. (16.4%) DESIGN & CONST.
(33.0%) P. DEV., SUB., PUB. INQ.

TOTAL SALARIES: Regular Salaries, Overtime and Part Time
1988-89 TOTAL: $419,576

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ENGINEERING DIVISION

CAPITAL IMPROVMENT SECTION

TABLE 1

PROJECTS DESIGNED

BID NO.	PROJECT DESCRIPTION	ENGINEER'S ESTIMATE	CALL FOR BIDS	DESIGN ENGINEER
89/01	WATER WELL #9S – PUMP & MOTOR REPLACEMENT	$ 30,000.00	8/16/88	CITY OF SANTA MARIA
89/02	STREET OVERLAY PROJECT – 1989	130,000.00	8/16/88	CITY OF SANTA MARIA
89/03	ALUMINUM HANDRAIL & LADDERS AT THE WWTP	50,000.00	9/6/88	CITY OF SANTA MARIA
89/04	CHEMICAL WEED ABATEMENT 1988–89	20,000.00	11/1/88	CITY OF SANTA MARIA
89/05	WALLER PARK ENTRANCE AT SKYWAY DRIVE	120,000.00	9/20/88	SKYWAY ENGINEERING
89/06	MODIFY & RELOCATE FACILITIES AT THE SANTA BARBARA COUNTY FAIRGROUNDS	300,000.00	10/4/88	FRED SCHOTT & ASSOC.
89/07	HAGERMAN SOFTBALL COMPLEX	2,400,000.00	11/1/88	RECREATION SYSTEMS
89/09	CONSTRUCT DEPOT STREET FROM MORRISON TO STOWELL	400,000.00	12/6/88	FRED SCHOTT & ASSOC.
89/10	CONSTRUCT BUILDING PAD FOR MAJOR "A" @ TOWNCENTER EAST	150,000.00	2/7/89	DENNIS BETHEL & ASSOC.
89/11	DEMOLITION OF STRUCTURES LOCATED WITHIN APN: 123–045–09 & 123–045–14	150,000.00	4/4/89	CITY OF SANTA MARIA
89/12	VIDEO SEWER LINES – 1989	9,600.00	4/18/89	CITY OF SANTA MARIA
89/14	BUS PULLOUTS	80,000.00	5/16/89	LAS PADRES ENGINEERS
89/15	VALENTINE COURT IMPROVEMENTS	110,000.00	6/6/89	DENNIS BETHEL & ASSOC.
89/16	TOWNCENTER EAST, PHASE III (PARKING LOTS)	500,000.00	6/20/89	DENNIS BETHEL & ASSOC.
	TOTAL	$ 4,449,600.00		

ENGINEERING DIVISION

CONSTRUCTION MANAGEMENT SECTION

TABLE 2

PROJECTS CONSTRUCTED

BID NO.	PROJECT DESCRIPTION	FINAL CONST. COST	COUNCIL AWARD	COUNCIL ACCPT.	CONTRACTOR
88/02	SLURRY SEAL S.M. TOWN CENTER PARKING LOT	$ 21,346.00	7/7/87	9/20/88	S-N-S ASPHALT MAINTENANCE, INC.
88/05	ADDITION TO PROPERTY ROOM - S.M. POLICE DEPT.	102,450.19	9/1/87	8/16/88	MAXUM BUILDERS
88/09	RENOVATE THE ELEC., HEATING & VENT. SYS. THE VETERAN'S MEMORIAL BUILDING	155,424.67	10/20/87	9/20/88	SMITH ELECTRIC SERVICE
88/12	WESTSIDE REDEVELOPMENT PROJECT - PHASE II SITE & BLDG. DEMOLITION CONTRACT	246,841.00	2/2/88	9/12/88	DIAMOND PACIFIC, INC.
88/15	STREET RECONSTRUCTION - 1988	386,882.78	6/2/88	12/20/88	UNION ASPHALT, INC.
88/16	WATERLINE PROJECT - 1988	462,241.80	4/5/88	4/18/89	JAMESON CONSTRUCTION CO., INC.
88/18	RECARPET LIBRARY	28,571.00	4/19/88	11/1/88	PHILLIP'S FLOOR COVERING
89/02	STREET OVERLAY PROJECT - 1989	99,172.98	9/20/88	12/20/88	UNION ASPHALT, INC.
89/03	ALIMINUM HANDRAIL & LADDERS AT THE WWTP	31,010.00	9/6/88	4/19/89	SPIESS CONSTRUCTION CO., INC.
89/04	CHEMICAL WEED ABATEMENT 1988-89	20,373.94	11/1/88	3/21/89	AGRI-CARE
	TOTAL	$ 1,554,314.19			

MECHANICAL MAINTENANCE DIVISION

This Division is responsible for the management of the City's entire fleet of operations vehicles and other similar equipment. The mobile and stationary fleet has approximately 295 gasoline and diesel powered equipment of various sizes and types. The major portion consists of passenger vehicles and trucks, the remainder includes miscellaneous power equipment from lawn edgers to a Caterpillar D-8 bulldozer.

The maintenance program includes "in-house" minor and major engine repairs, tune-ups, general repairs, metal fabrication, minor body repairs, brake repairs, tire repairs, lubrication and an effective preventive maintenance program. An analysis is performed on each job to assure best overall economy and safety. This has resulted in operating the division with a minimum dollar budget. This division is unique in that it operates as a "pool" rental system for all the mechanical equipment used by all the departments and divisions and entails the development of the specifications for purchasing of same; keeps detailed records for equipment cost analysis and setting of the rental rates for vehicles as well as the City radio communication units.

During fiscal year 1988-89, fleet vehicles traveled 1,680,697 miles, an increase of 1.3% from last year, using some 283,269 gallons of fuel, a decrease of 3.9% from last year. Service fuel delivery tickets used during this period were 13,340.

The division used 3,135 shop repair orders. This is an increase of 268 from that used last year.

A budget balance is sustained through revenue from the Pool Rental Program and other reimbursements, as follows:

COMM. AND RENTAL	$ 79,728.00
a. Assigned and unassigned vehicles	$2,120,786.00
b. Private party accident insurance	19,780.00
c. Sale of surplus vehicles and equipment	60,297.00
d. Services provided to other agencies	51,222.00
Total	$2,331,813.00

Police patrol and Santa Maria Area Transit (SMAT) accounted for the greatest miles traveled during 1988-89 fiscal year. Police patrol operated 16 black and white units (includes K-9) for a total of 407,370 miles or an average of 2,122 miles per unit per month for the 12-month period.

SMAT operated eleven mini buses during the same period in providing door to door, fixed route and health services transportation compiling a total of 335,601 miles traveled for the year or an average of 2,542 miles per unit per month.

Significant fleet replacement and additions are as follows: SMAT, replaced a 14 passenger mini bus with a 25 passenger diesel powered medium size bus; Police Department, added 1 patrol unit and 1 detective unit; Parks Department, added a diesel powered rotary gang mower; Community Development, added a mid size 4-door sedan; Fire Department, replaced a pumper truck, added 2 3/4 ton brush trucks, a bomb disposal trailer and a haz-mat trailer.

Petroleum dealers are still optimistic that fuel supplies will remain stable; however, as in the past, fuel supply shortages may occur in the future. Therefore, this division will continue to seek fuel saving methods, i.e., down size replacements where possible, encourage fuel saving driver's techniques (CAM 81-1) and investigate alternative fuels.

Figure 10 depicts man hours for the various segments of this division's work.

CITY OF SANTA MARIA
DEPARTMENT OF PUBLIC WORKS
MECHANICAL MAINTENANCE DIVISION
EXISTING ORGANIZATION CHART

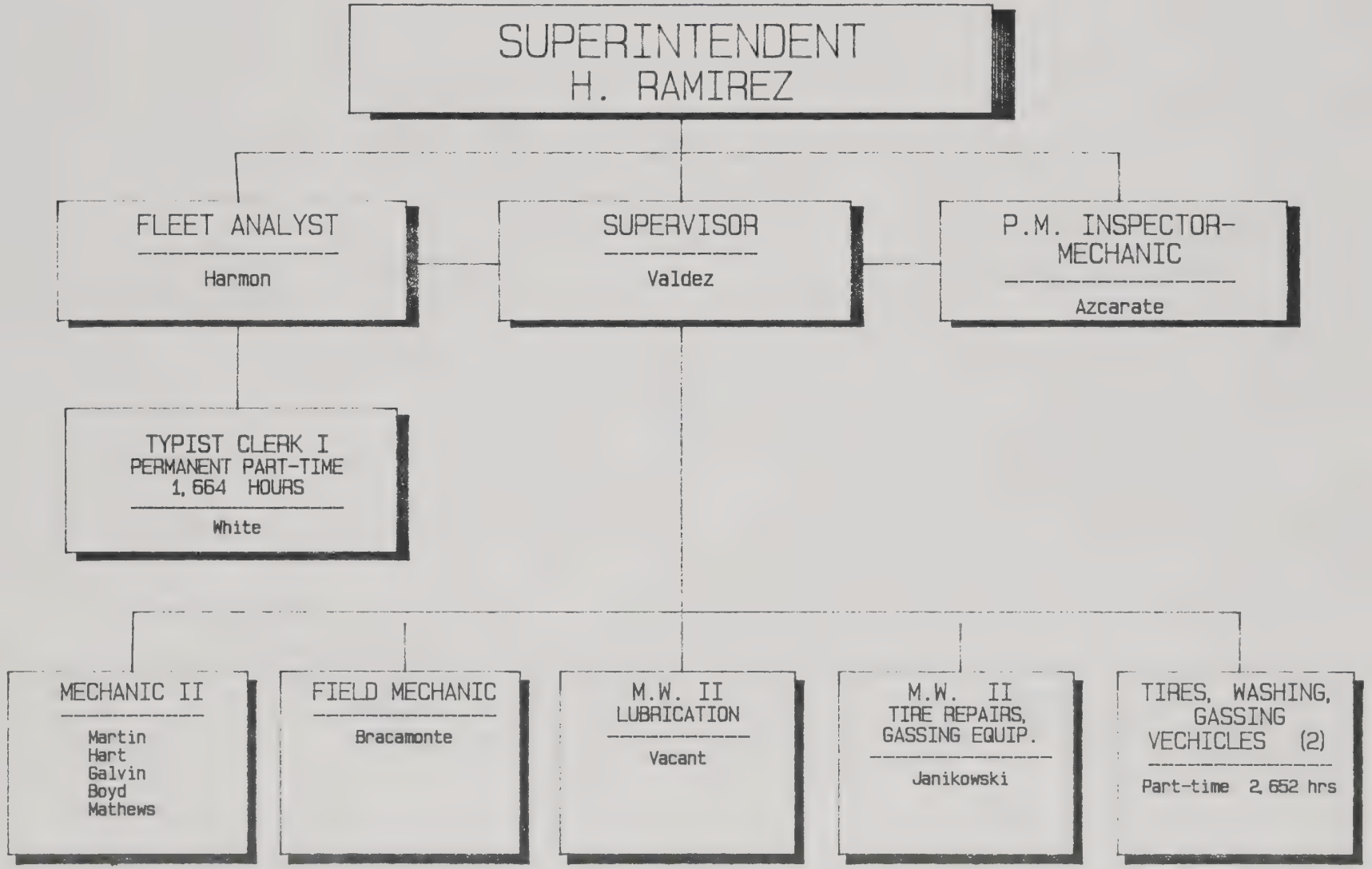


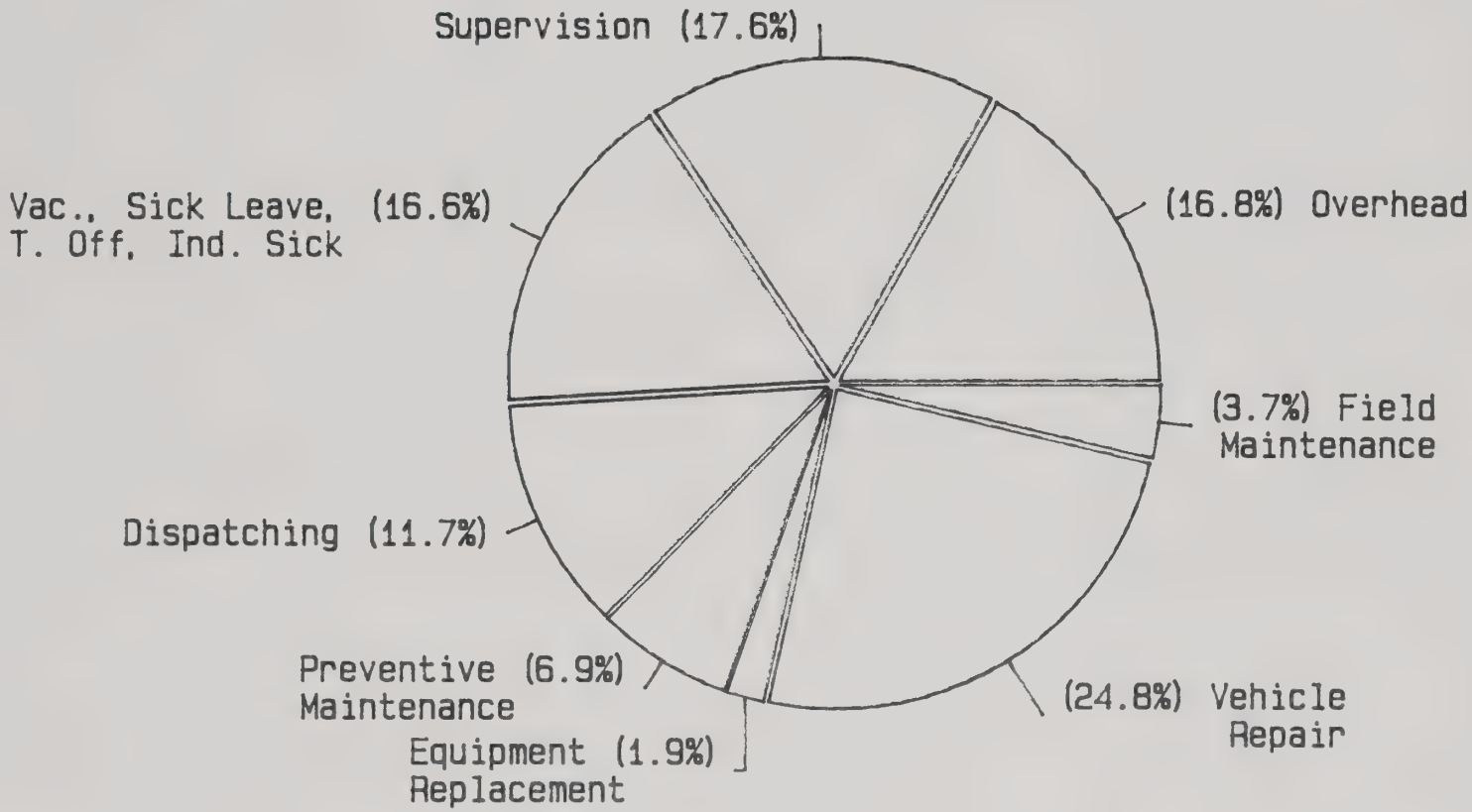
Figure 9

CITY OF SANTA MARIA

MECHANICAL MAINTENANCE

Man Hour Chart

1988-89



TOTAL MAN HOURS: 29,487

ARMMMHC

Figure 10

SOLID WASTE DIVISION

Collection

The collection section of the Solid Waste Division is responsible for the collection of mixed refuse from approximately 12,128 residential and commercial accounts using City personnel and equipment. Residential refuse is collected twice each week and the commercial accounts are serviced from one to six times each week.

Residential collections are made by four one-man automated sideloaders (ASL). The commercial accounts are picked up by three frontloader drivers.

Since the newspaper program was initiated on February 1, 1974, the program has not progressed as planned. The market has become unreliable due to its fluctuating status. Along with this, it has become increasingly more difficult to find a creditable and reliable buyer. Therefore, the newspaper program has been stopped until an efficient and economical program can be implemented. Endeavors are ongoing to formulate a future program.

Due to the increased volume the 90-gallon automated containers provide, as compared to the previously used 2-32 gallon size cans prior to 8/1/87, tonnage collected has increased; see Figure 12, Residential Tons Collected. As a result of the additional storage volume, residents are able to now dispose of waste that would normally be piled up or stored in yards due to an extra service charge when extra service was requested. There is still an extra service charge for extra waste, but rarely is this extra service requested.

For 1986 prior to automation, there were 9 injuries while still with the manual system; there are no injuries to date since automating.

Capital improvements added this year consist of 100 new refuse bins purchased for new accounts.

Figure 13 is a comparison of the number of miles traveled by all Solid Waste Division trucks for each calendar year. Following are facts which have resulted in increases/decreases:

1974 -	Decrease; Energy Shortage
1975 -	Increase; New Construction & New Scales Installed (CHP overweight warning)
1981 -	Residential Decrease; Balancing Routes
1982 & 83 -	Residential Increase; New Construction
1986-87 -	Residential Increase; New Construction

Figure 14 indicates the number of accounts for each year for residential and commercial service over the past 15 years. A point to be noted is the 1979 and 1986 account figures were taken from the number of water meters in the City which included accounts serviced by Health Sanitation Service. Commencing with 1980, the accounts are actual per computer print out.

Figure 15 shows the total tons hauled for both residential and commercial customers the past 7 years for the calendar year.

Special Waste Handling Program

This program, implemented by the City Council in 1985, continues to provide citizens a location to dispose or drop off vehicle waste oil as well as

household paint preventing this type of waste from being disposed of in the landfill.

The duties and responsibilities required of this program are to receive, categorize by type and compatibility, and prepare the waste for transportation and disposal at a Class I hazardous waste facility; and manage the program and facility per State and local government hazardous waste standards and regulations.

The following illustrates the past Fiscal Year's activities.

Waste Oil: July 11, 1988 - June 20, 1989 = 4776 gallons received and recycled by Diamond Oil Services. Total cost $297.98

Paint: July 19, 1988 - July 5, 1989 = 2,240 gallons of latex paint with 112 drums shipped to Casmalia Resources at a cost of $13,590. Oil base paint received was 935 gallons and shipped 17 drums to Romic Chemical Corp. in east Palo Alto and Omega Recovery Systems in Whittier, CA at a cost of $7,468.25.

Waste Oil

Upon a minimum of 2-55 gallon drums being filled, Diamond Oil Service of San Luis Obispo is notified for pumping out the drums to be recycled.

Paint

Paint is processed as soon as there is enough to fill a drum. Latex paint is solidified with vermiculite. Latex paint, aerosol cans, and oil-contaminated debris are all disposed of at Casmalia Resources located adjacent to Santa Maria, CA. Since January of 1989 we have not processed aerosol cans.

Oil-base paint is processed through Omega Recovery Systems of Whittier, Calif. which is a transfer station responsible for disposal of the paint through incineration or recycling. We have also used the services of Romic Chemical Corp. of East Palo Alto, Calif. which disposes of the paint through incineration.

Community Hazardous Waste Collection Day

The third hazardous waste collection day for Santa Maria Valley residents was conducted on September 24, 1988 in the Santa Maria High School parking lot. Again, this project was planned and administered by the Community Environmental Council (C.E.C.). This area's previous such event was on Oct. 10, 1987. A fourth collection day is being planned for September, 30,1989. Funding for future collection days seems questionable since Santa Barbara County is allocating less of the Casmalia Facility Tax Revenue to this effort County-wide.

Disposal

The disposal section of the Solid Waste Division is responsible for operation of the City Landfill along the easterly terminus of East Main Street. This involves the spreading, compacting and covering of all refuse produced in the City, as well as all produced by residents adjacent to the City in San Luis Obispo and Santa Barbara Counties. This also includes estimating small pickup loads and collecting cash or issuing charge tickets for all loads dumping at the Landfill. Some of the associated activities are comprised of constructing and maintaining the access road and erecting fences for the control of blowing paper.

Increases in dumping fees were instituted during the fiscal year; 15% for 07/01/88 and 11% for 07/01/89 to cover increased operating costs.

Figure 16 shows the acreage used through the past calendar years. The variation from a normal increase each year, starting in 1971-72 to present, is caused by the different types of land being used (reuse of the old landfill versus clean land). The reduction in land used in 1975, 1976, 1977 and 1982, 1983, 1984, and 1987 was caused by raising the height of the finished fill higher than in previous years and the use of a compactor, in addition to the clean land now being used. Increased land usage generally is the result of not going above the levee height to make a contoured hill and increased use of the Landfill by the public. In March 1983, 84 additional acres were purchased adjacent to the existing facility, however, presently this area is not permitted for disposal purposes.

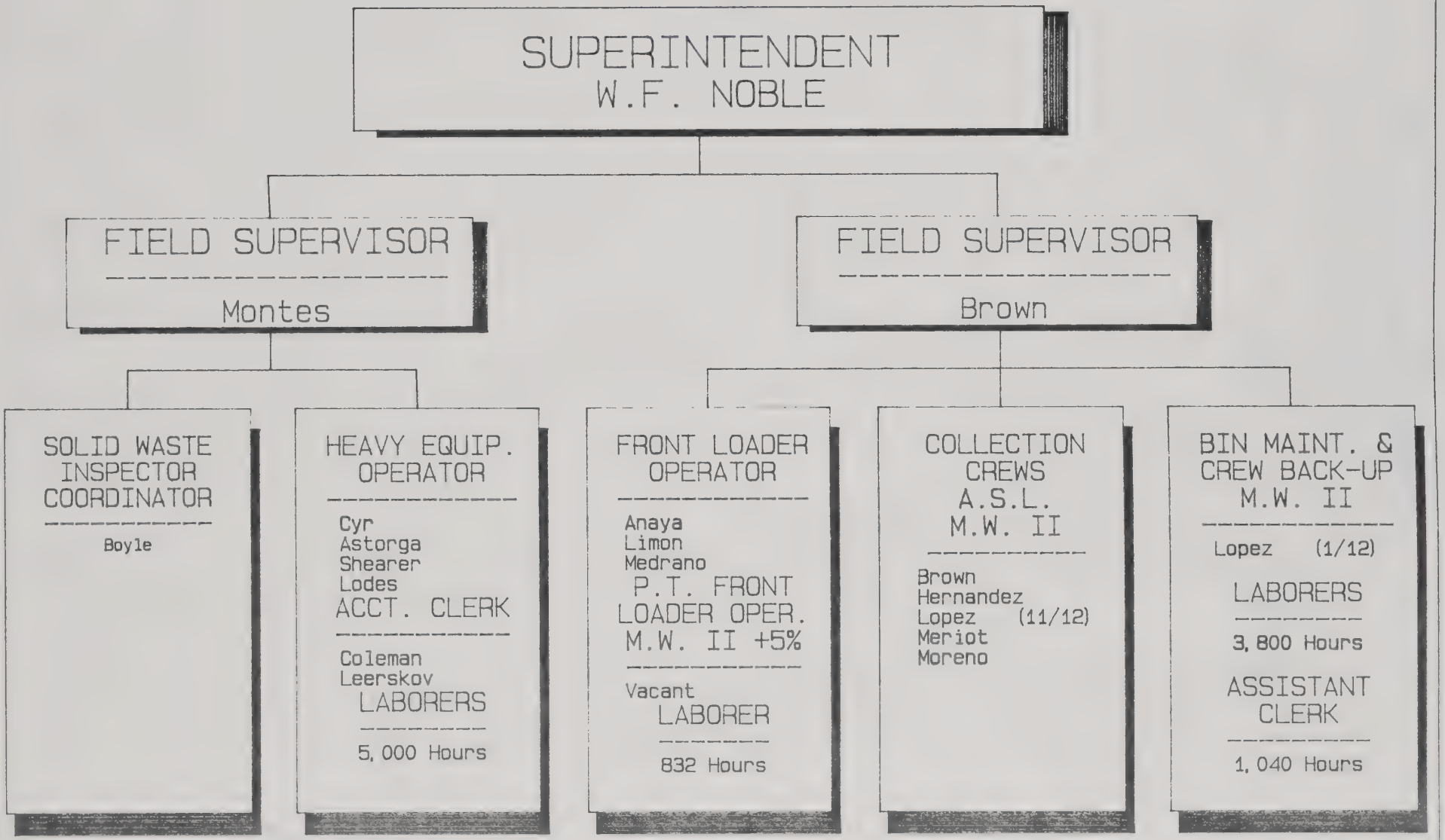
Approximately 83 acres of clean land are remaining for the existing Landfill operation as of June 30, 1989.

Figure 17 indicates the total number of tons received at the Landfill for the various calendar years since operation of the scales commenced and the average tons received per day for each calendar year. These figures are reported on a quarterly basis to the Regional Water Quality Control Board in compliance with Order No. 86-85 adopted June 13, 1986.

Figure 18 indicates the total loads for the year and average number of loads/day received at the Landfill each calendar year.

Figure 11

CITY OF SANTA MARIA
DEPARTMENT OF PUBLIC WORKS
SOLID WASTE DIVISION
EXISTING ORGANIZATION CHART



CITY OF SANTA MARIA

SOLID WASTE DIVISION

Residential Solid Waste Collection

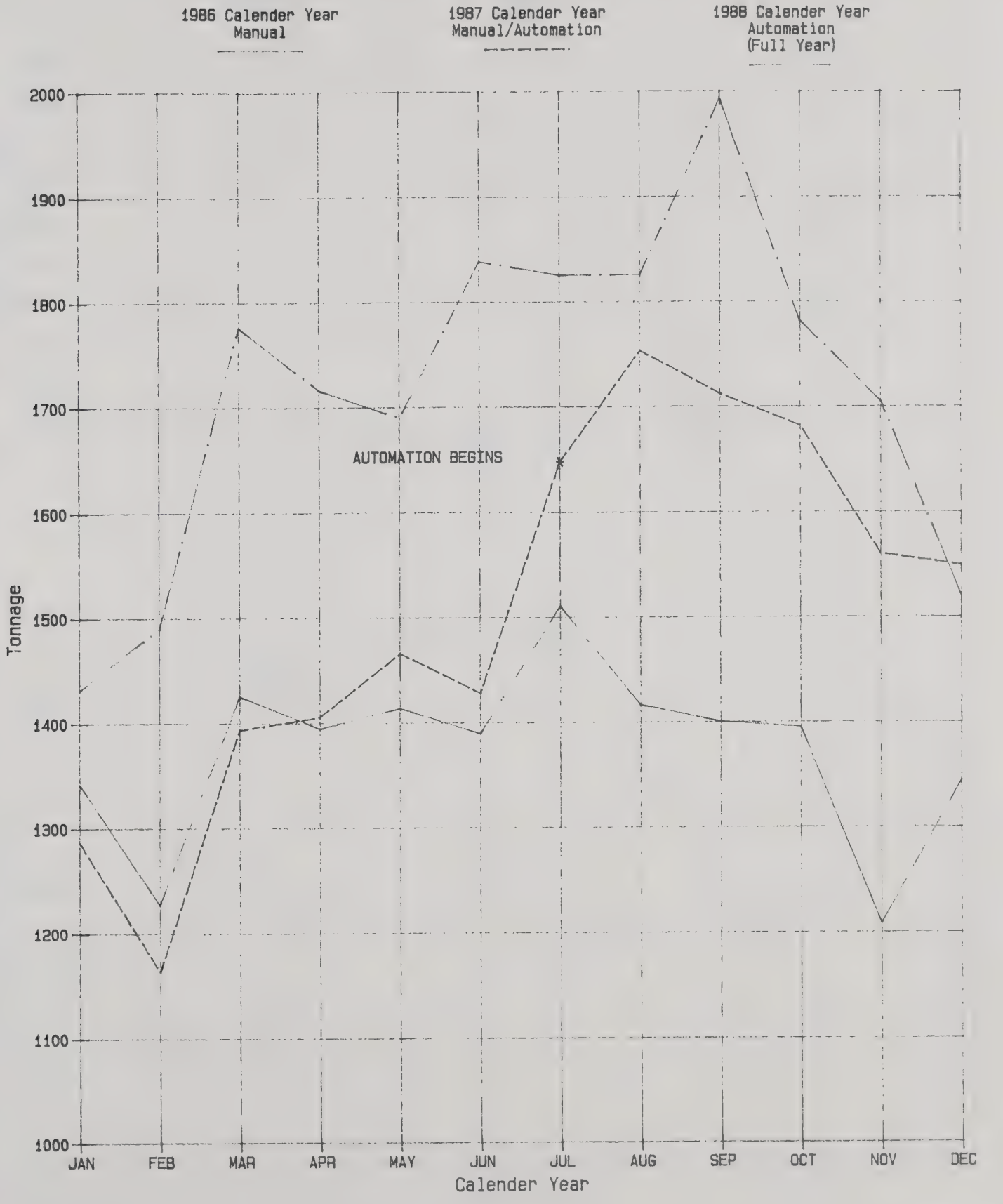


Figure 12

ARSWDRWC

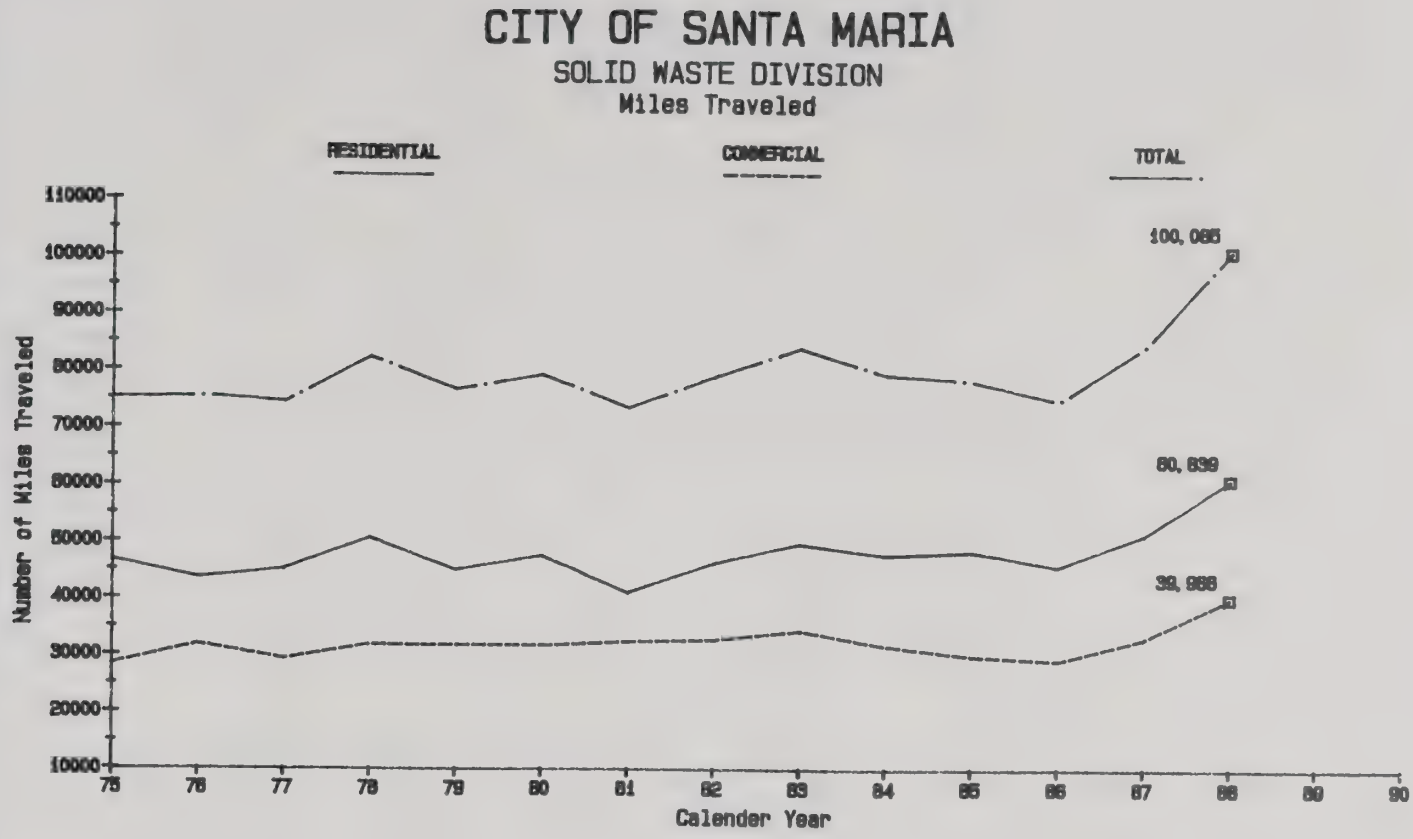


Figure 13

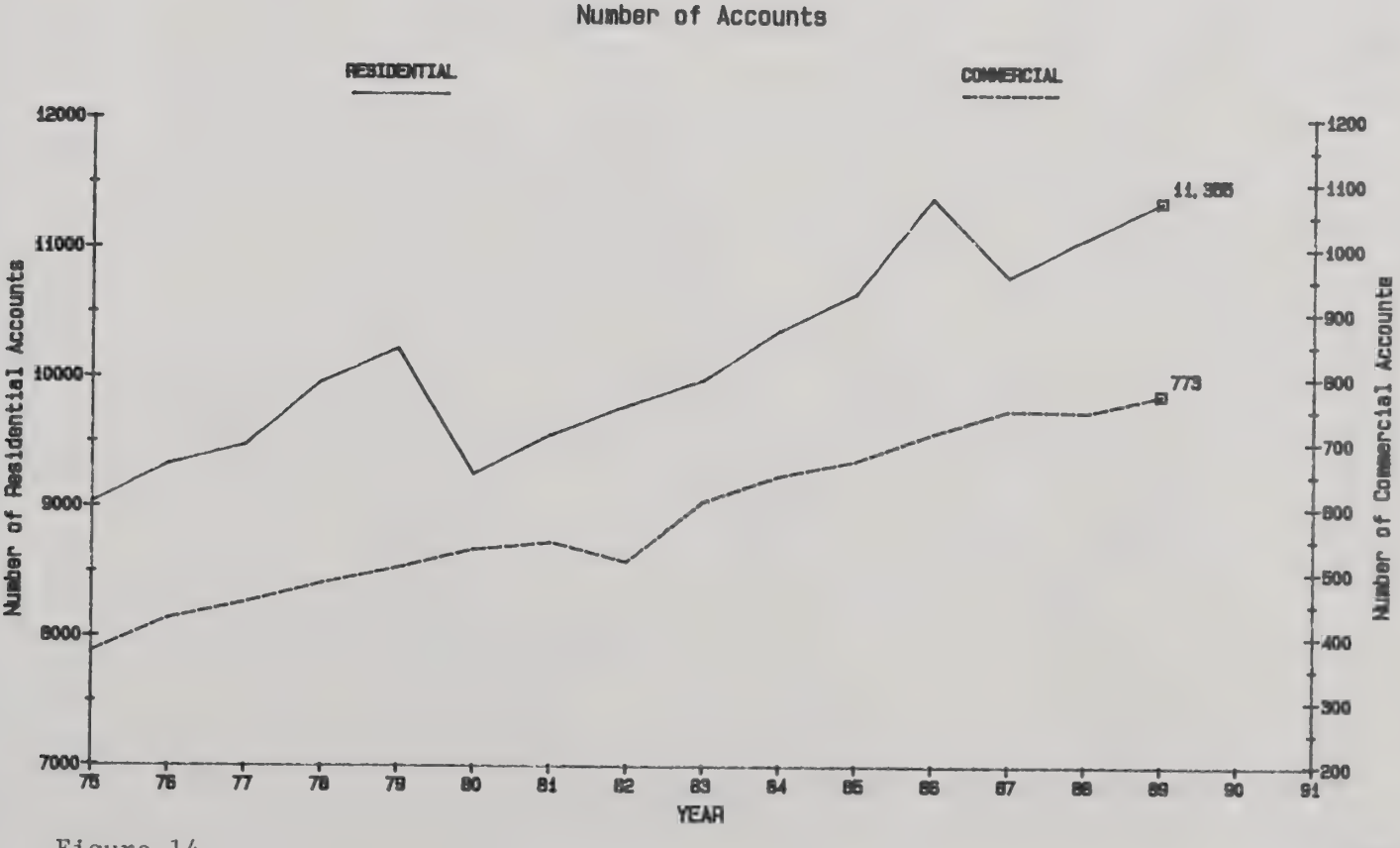


Figure 14

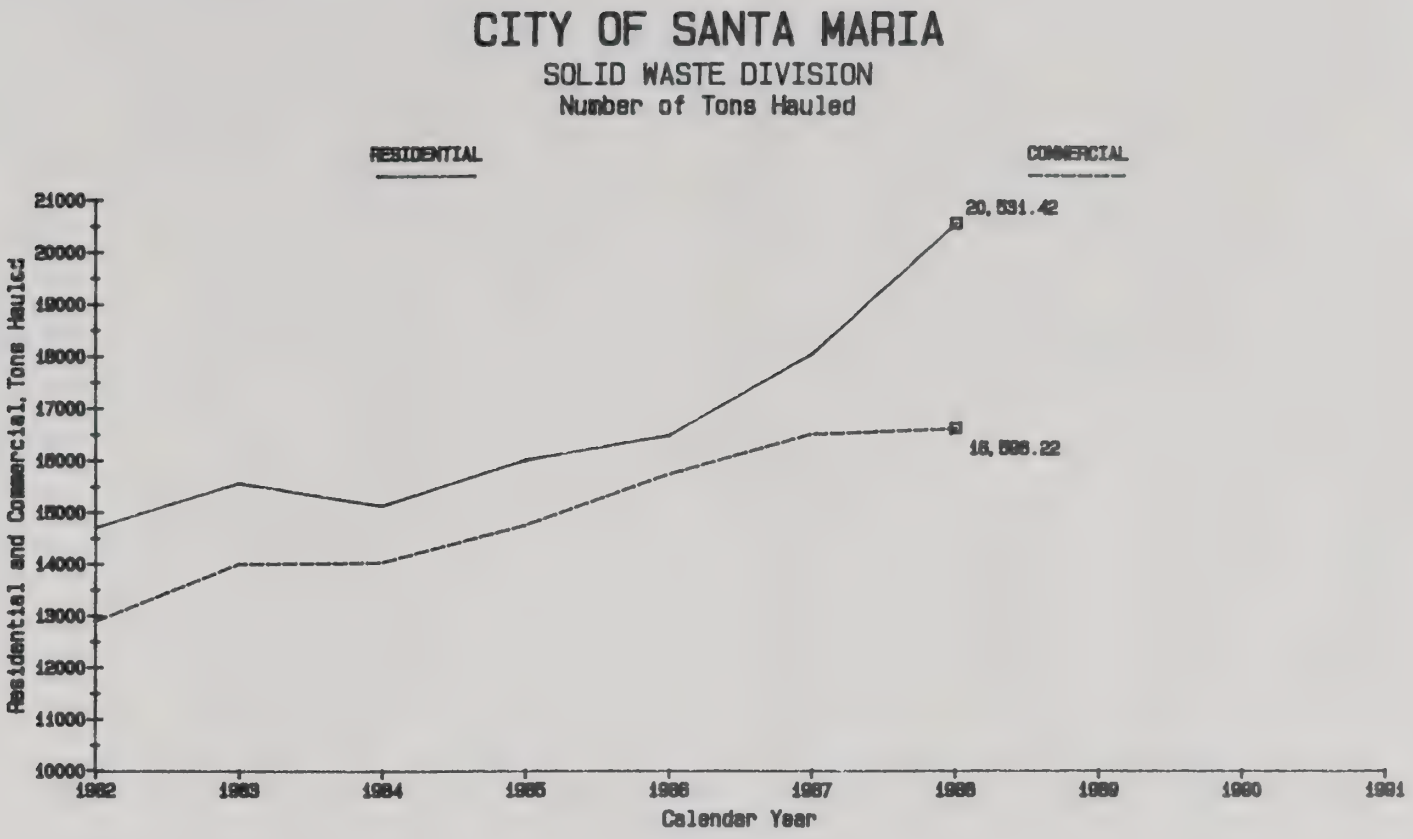


Figure 15

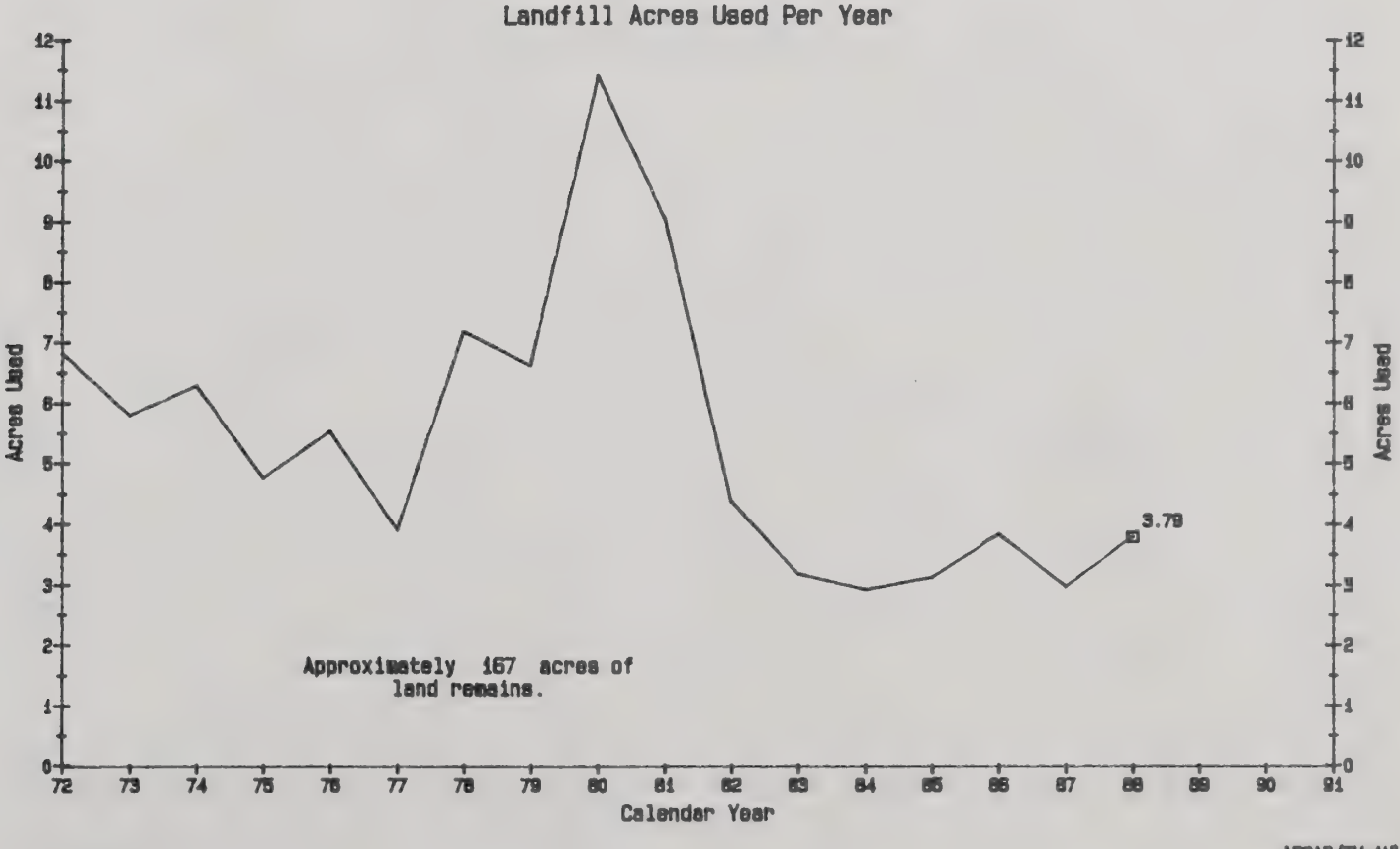


Figure 16

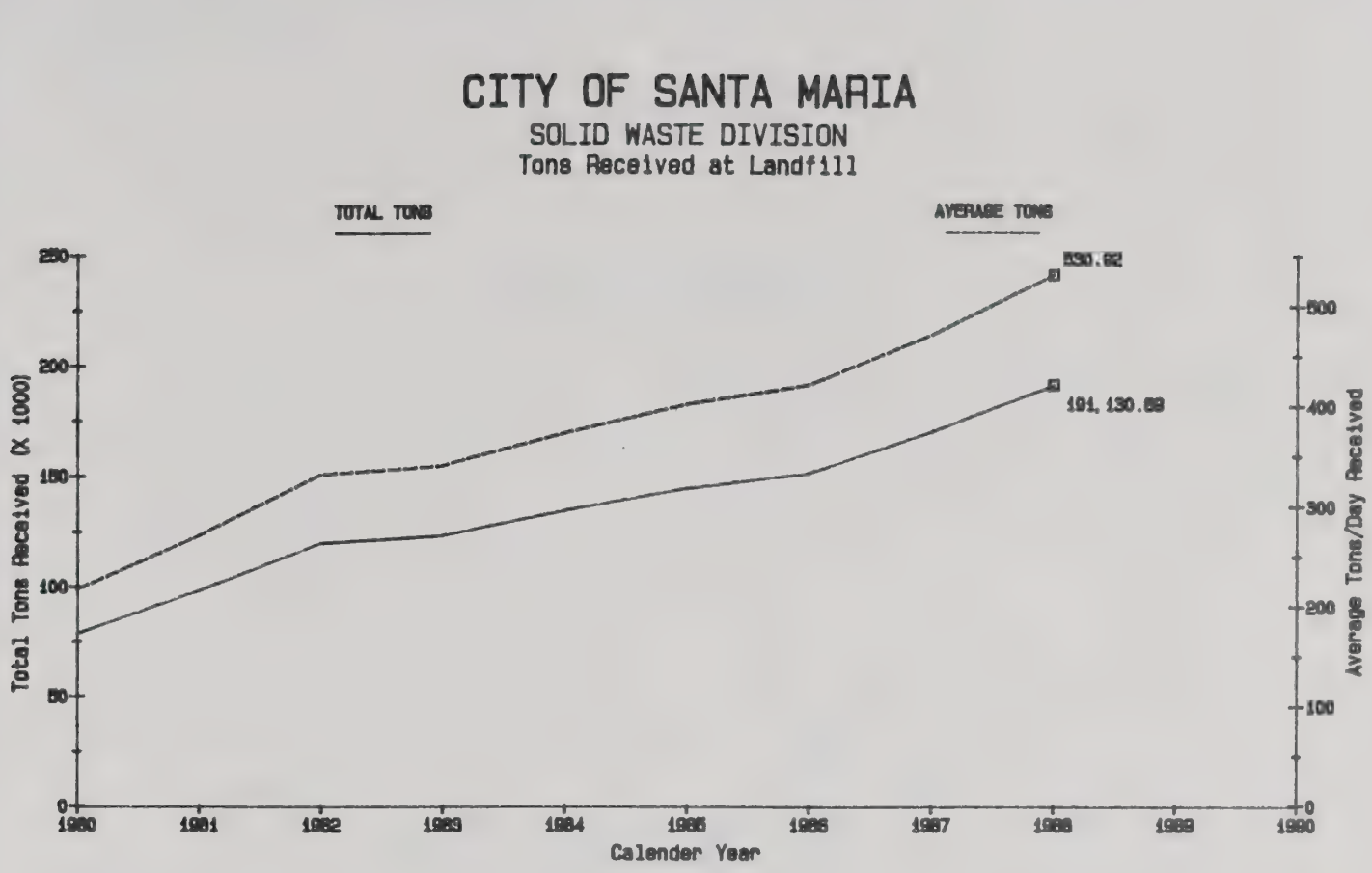


Figure 17

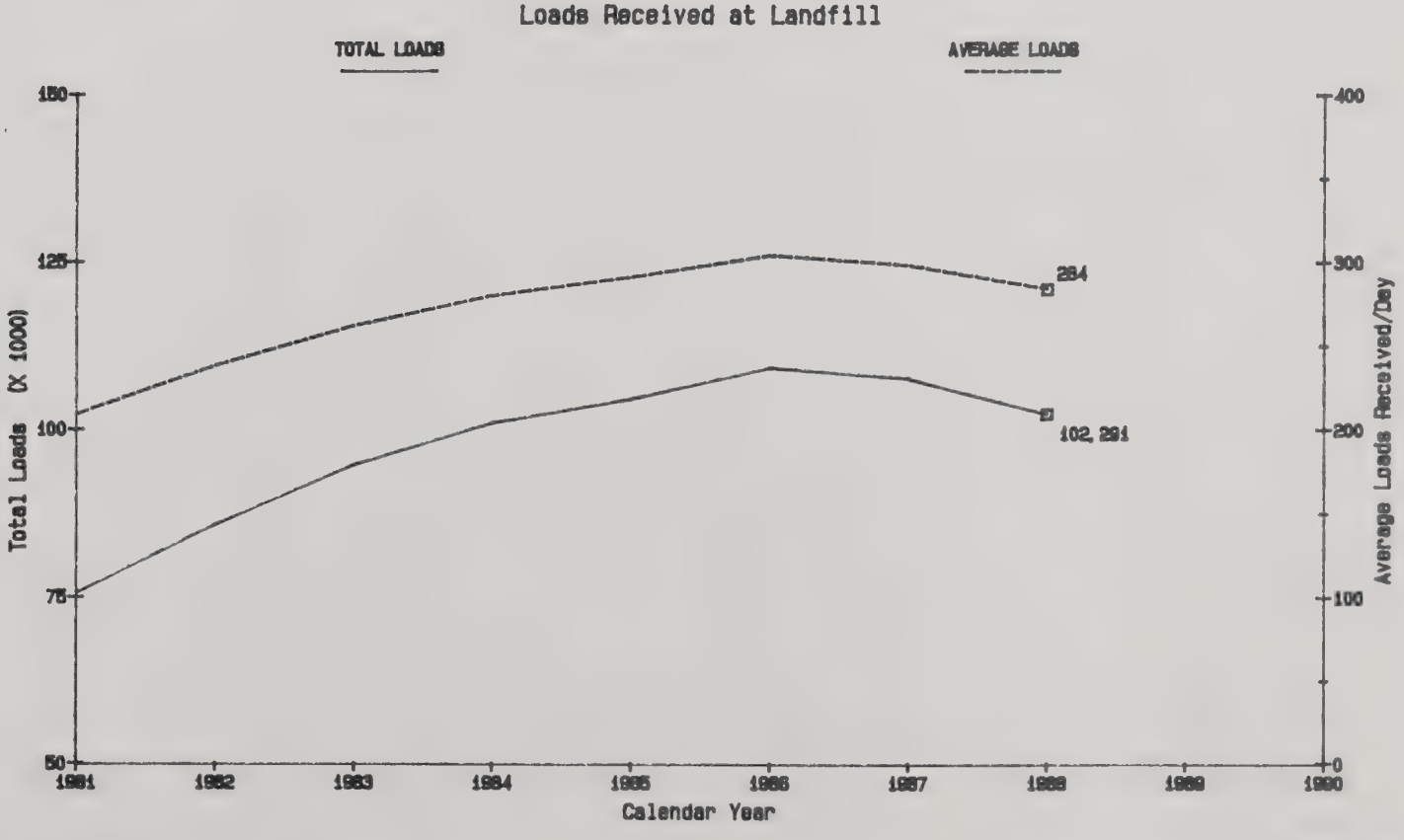


Figure 18

STREET AND SEWER DIVISION

The Street and Sewer Division is responsible for preventative and regular maintenance of the City streets with appurtenant facilities. This includes emergency maintenance or repair caused by accidents, weather conditions, settlement or other unusual unexpected damage.

The developed Pavement Evaluation and Maintenance Management System enables the Street Division to maintain the approximately 350 lane miles of streets within the City system, using the latest pavement management and computer techniques. Prepared reports summarize the present and future condition of flexible pavement and suggested cost-effective maintenance strategies, as well as total cost for maintenance and/or repair of the City's pavement system.

The degree and type of maintenance for each street or portion thereof in the total City street system is determined by the Street Superintendent taking into consideration Pavement Evaluation and Maintenance Management System reports and monies available.

High on the priority list is proper scheduling and planning of routine preventative maintenance procedures in order that any inconvenience to the public is kept to a minimum. Every effort is made to speedily correct hazardous conditions, which interfere with the safe flow of traffic, vehicular or pedestrian. Safety for the public is our primary consideration.

The Street Division composition for period July 1, 1988 - June 30, 1989 was as follows: Street Superintendent, Street & Sewer Supervisor, Electrical

Supervisor, five (5) Crew Leader/Maintenance Specialists, two (2) Electricians, two (2) Motor Sweeper Operators, eight (8) Maintenance Workers II, four (4) Labor III, for a total personnel strength of twenty four (24). This division was augmented with three (3) works aides during the summer program.

The major maintenance activities conducted by the Street Division are as follows:

1. Travelway Maintenance
   a. A/C Repair - Overlays - Chip Seal Coat
   b. Concrete Improvement Repair
   c. Installation & Maintenance of Signs
   d. Pavement Delineation
   e. Street Illumination and Electrical Maintenance
   f. Traffic signal light maintenance
   g. Electrical Maintenance Support
2. Drainage Maintenance
3. Wastewater Collection System Maintenance
4. Street Sweeping
5. Weed Abatement
6. Town Center Mall East; Town Center Mall West; Stowell Lighting & Parking Maintenance District and the City's Parking District

1. TRAVELWAY MAINTENANCE

a. Asphalt repair, overlays - chip seal; fog seal: The preservation, upkeep and restoration of 350 lane miles or 152 center line miles (no change from last year) of flexible pavement is the maintenance responsibility of this Division. Annual travelway maintenance for fiscal year 1988-89 consisted of one (1) major operation.

The overlay operation consisted of placing 2,775 tons of concrete asphalt to 30,139 sq. yds. of City streets for a total cost of $ 75,913.28. This year the City cold planed 6,565 sq. yd. of roadway shoulder prior to the placing of asphalt to provide a smoother transition at the joint of concrete gutter line and the street, for a cost of $ 14,775.15. In addition to and in conjunction with the overlay, one section of a City street received reinforcing fabric to reduce reflective cracking and increase longevity of the travelway for a cost of $ 3,608.55. Removal and adjust to grade various water valves, sewer manhole cover and survey monuments for a cost of $ 4,875. Total cost for 1988-89 street maintenance contract was $ 99,171.98.

b. Concrete Improvement Repair: This activity involved the repair of concrete improvements (sidewalks, curbs and gutters) damaged by tree roots or City-owned property. The 2 1/2 men crew completed 65 work orders for a total of 8,025 sq. ft. There were 51 concrete improvement damaged service requests of concrete improvements damaged by tree roots, City property (trucks), and/or private property. Temporary asphalt repairs continues on all hazardous sidewalk service requests and are made within a very short period of time, in most cases, the same day. Presently, this division has a backlog of approximately 1,556 known locations, a 1% decrease over 1987-88 known locations, of tree root damaged concrete improvements.

c. Installation & Maintenance of Signs: This program includes all work performed in signing as a traffic control device. Signs are placed on City streets for the purpose of warning, regulating or guiding traffic. The work may consist of the fabricating, purchase, assembly and installation of new signs; replacement of existing damaged signs and their repair and cleaning.

Signs are replaced or repaired when they become defective due to age, weathering, vandalism, accidents or any other types of wear and tear. Following is a summary of this activity:

Type Sign	New or Reinstall Damaged	Reface Sign, Plate & Reinstall
Regulatory	291	237
Guide	110	88
Warning	123	267

Also, 43 barricades were repaired for use by division crews during their normal work activities.

d. Pavement Delineation: The pavement delineation program involved all work necessary to maintain and replace traffic directional street markings. Work included layout, removal of old stripes, painting of new or existing stripes limited parking zones, restriping of pavement lane lines, stencils and parking lines after the annual Street Maintenance Program. This required the use of 790 gallons of traffic paint, 1.5 tons of beads, approximately 80 gallons of lacquer and paint thinner.

e. Street Illumination: Street illumination is a major responsibility of this division and consists of the upkeep of 3,781 street lights, 3.0% increase over fiscal year 1987-88.

This maintenance operation required the replacement of 635 photo cells, 752 lamps (various sizes) 9 luminaires, and 26 street light standards. Included in this operation is the light maintenance of three (3) City parking lots, Santa Maria Town Center Mall parking lots, parking structure and Stowell Shopping Center parking lot.

f. City owned traffic signals maintenance: Street Division Electrical Crew, has the responsibility of maintaining seventeen (17) City owned traffic signal lights. During this period Electrical Maintenance Personnel have received additional formal instructions on traffic signal operation and maintenance, and on the job training. This approach has been taken to qualify new Electrical Crew Members to inspect, maintain, and adjust traffic signals for the purpose of safe and orderly traffic movement at street intersections.

Call back operation has been coordinated and is initiated through the Police Department, for response, on any time after normal working hours, weekend or holidays.

g. Electrical Maintenance, Support: Maintenance activity includes electrical service, as required, by all departments and their subordinate divisions for installation of new machines, electrical circuits, changes in electrical circuits and electrical repairs.

2. DRAINAGE MAINTENANCE

The underground drainage facilities now in existence has reduced the flooding of intersections on some of our major arterials and other streets. The present maintenance operations include flushing of 110 intersection culverts, grading and weed control of ten (10) major drainage ditches; this work occurs twice annually with a two man crew and contract applications of herbicide weed control to 162,923 sq. ft. at a cost of $762.96.

3. WASTEWATER COLLECTION SYSTEM

The Street Division has the responsibility of maintaining approximately 136 miles of City Wastewater collection system, an increase of 0.5% from 1987-88.

This activity consisted of immediate responses to 98 City Wastewater collection system stoppage service requests, 53 City/45 Private property responsibility. Total requests represents an increase of 2% (greater than) 1987-88. The wastewater collection system scheduled maintenance of 219,898' reflects a decrease of 17% from 1987-88.

4. STREET SWEEPING

City residential streets were swept on a bi-weekly schedule with the business area on a daily basis. The two motorized sweepers and a back up motor sweeper were operational 492 sweeper days. The 28 days the sweepers were not operating were due to service repair, inclement weather, holidays and compensatory time off. The two sweepers and back up sweeper removed and hauled to the landfill 1,995 tons of material swept off the City streets, using 34 pick-up brooms and 55 gutter brooms.

4. WEED ABATEMENT

The weed abatement program takes most of seven months to complete and is conducted in five phases:

I Early-fiscal year lot inspection

II Posting lots for herbicide weed abatement

III Application of herbicide weed control during mid fiscal year

IV Posting lots for weed abatement and debris removal, manually and/or with equipment

V Manual abatement of weeds and cleaning of lots. This phase runs into the following fiscal year.

All phases require the posting and compilation of cost records to assure proper billing for each lot; all of which is forwarded to the City Clerk for the filing of assessment against the property. The herbicide weed abatement program during fiscal year 1988-89 came to a total of 4,101,446 sq. ft. (a decrease of 18% from last year) for a cost of $ 19,610.90. The decrease in square footage treated is due to construction on vacant lots. The hand cleaning Weed Abatement Program consisted of cleaning 69 lots for a total cost of $1,391.31. Total cost of Abatement Program for 1988-89 was $ 20,972.21.

5. TOWN CENTER MALL EAST, TOWN CENTER MALL WEST, STOWELL PARKING & LIGHTING DISTRICT AND CITY OF SANTA MARIA PARKING DISTRICT

The Santa Maria Town Centers and Stowell Shopping Center landscaping and parking area maintenance is performed by private contractors under the administration of the Street Division. Review for compliance with bid specifications and administration of expenditures in accordance with the contracts are the primary responsibilities. Performance standards are determined by periodic inspections and notifying the contractor of any deficiencies.

The Parking District consists of two existing City-owned public parking lots as follows:

1) 200 Blk. West Chapel (southeast corner Chapel and Pine)
2) 200 Blk. East Main (north side)

Maintenance consists of painting parking spaces, sweeping, pavement repairs and parking lot lights.

ATTACHMENTS

Figure 19 depicts the personnel composition and maintenance responsibilities of the Street and Sewer Division.

Figure 20 depicts the man-hours required for various segments of the street, drainage, sewer and sweeping sections maintenance responsibilities of this division.

Figure 21 depicts the man-hours required for various segments of the electrical support and traffic section maintenance responsibilities of this division.

Figure 22 depicts the maintenance man-hours for electrical support to various City departments and divisions.

CITY OF SANTA MARIA
DEPARTMENT OF PUBLIC WORKS
STREET AND SEWER DIVISION
EXISTING ORGANIZATION CHART 1988/89

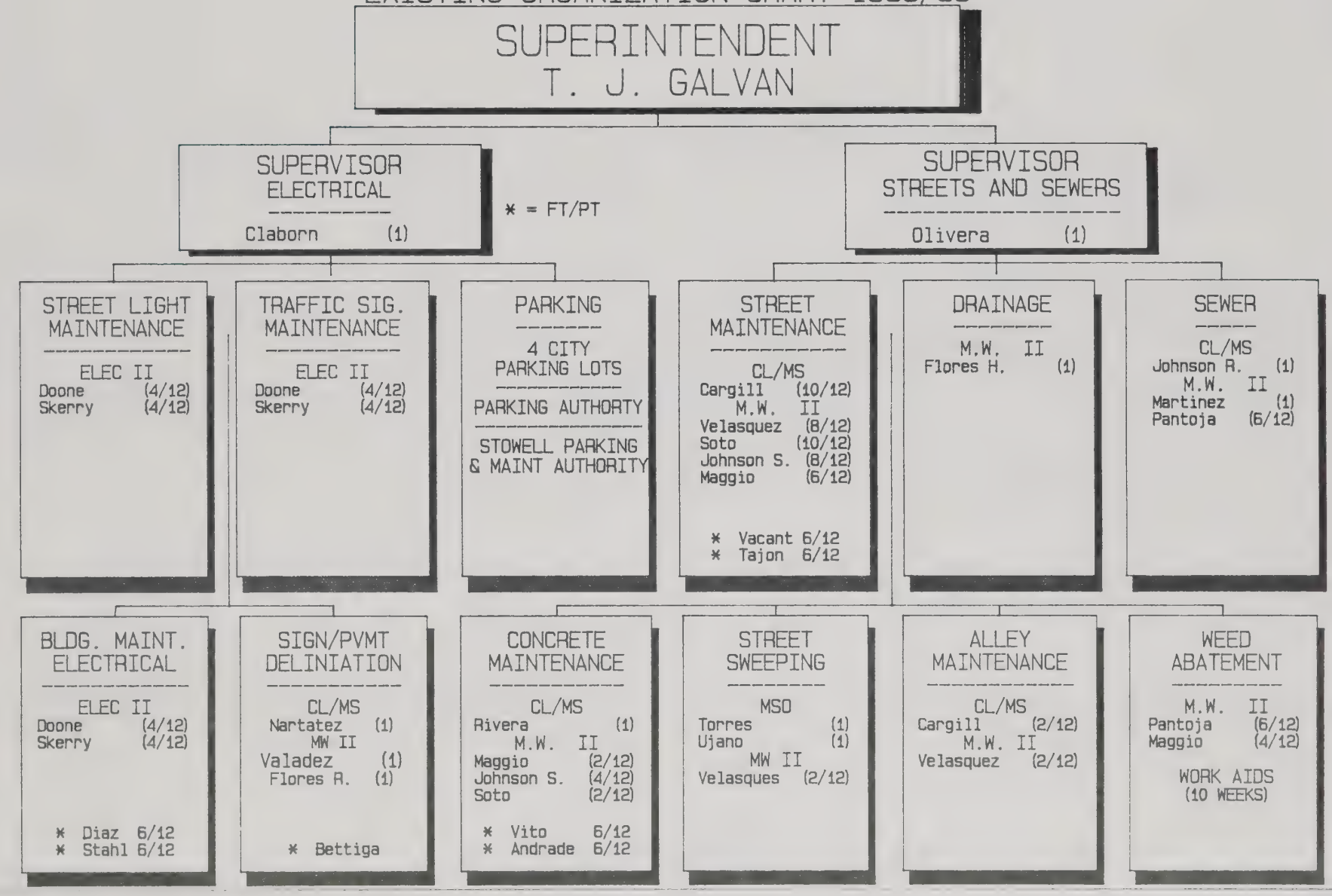
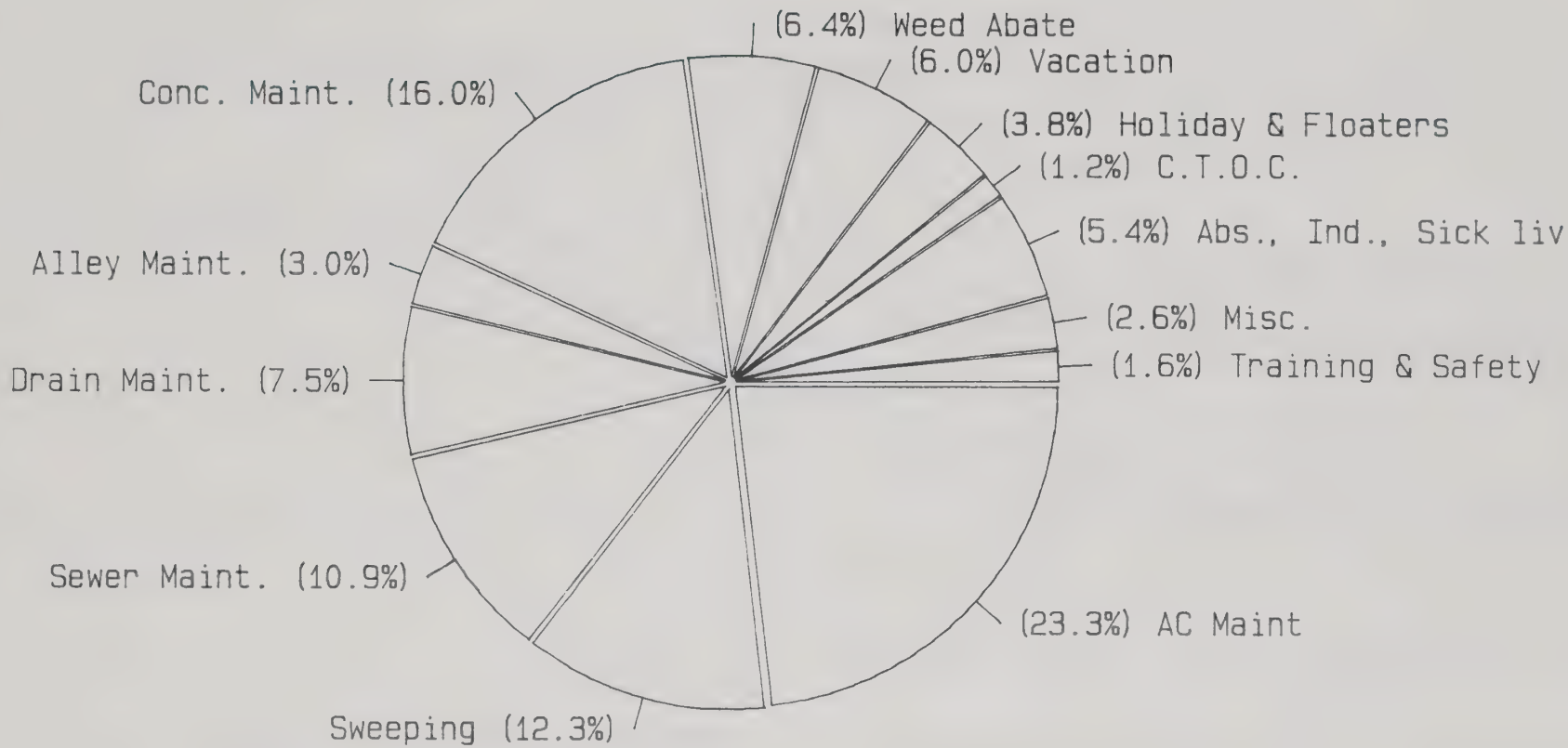


Figure 19

CITY OF SANTA MARIA

Street and Sewer Division
Maintenance Section
Manhour Utilization 1989-89



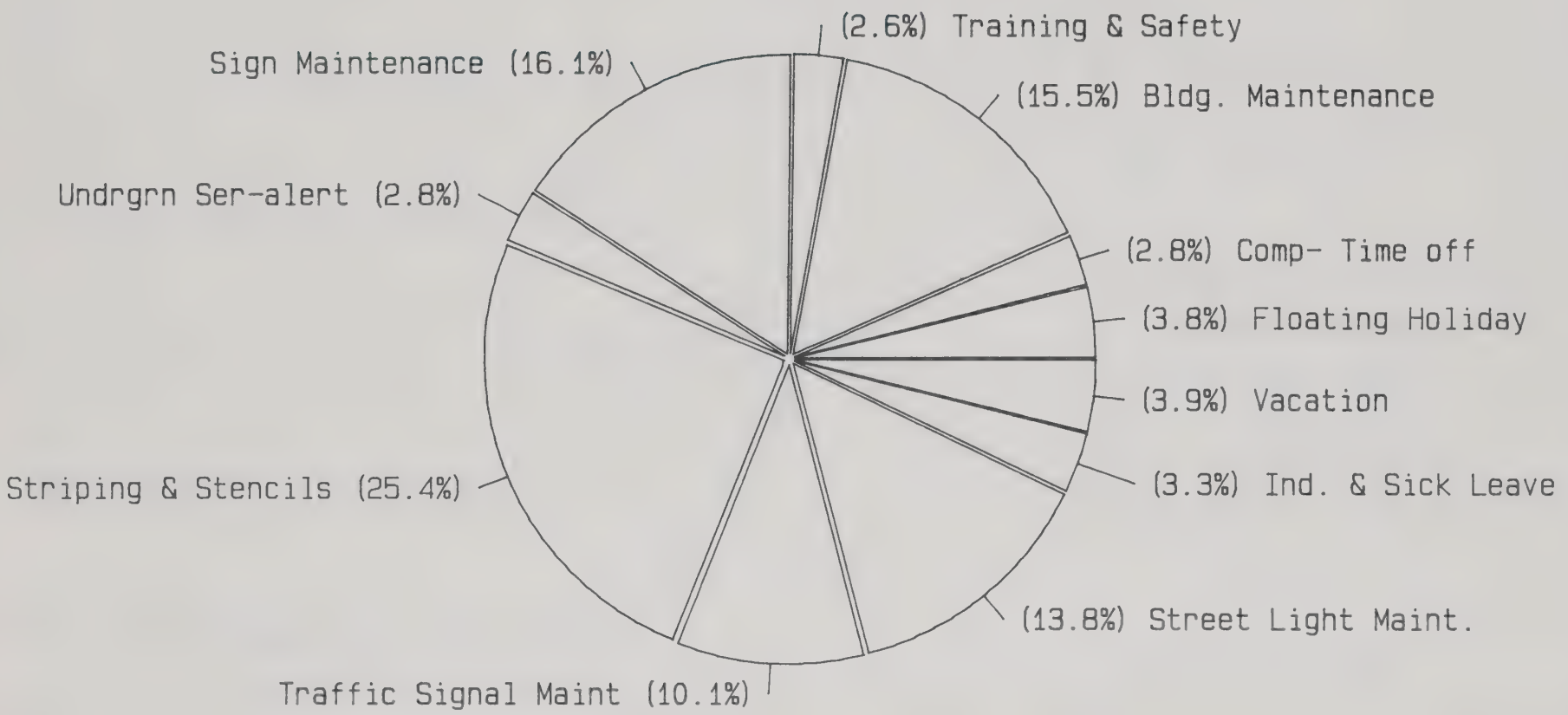
TOTAL MANHOURS 1988-89: 32,164

Figure 20

ARSDIVMU

CITY OF SANTA MARIA

Street and Sewer Division
Electrical and Traffic Section
Manhour Utilization 1988-89



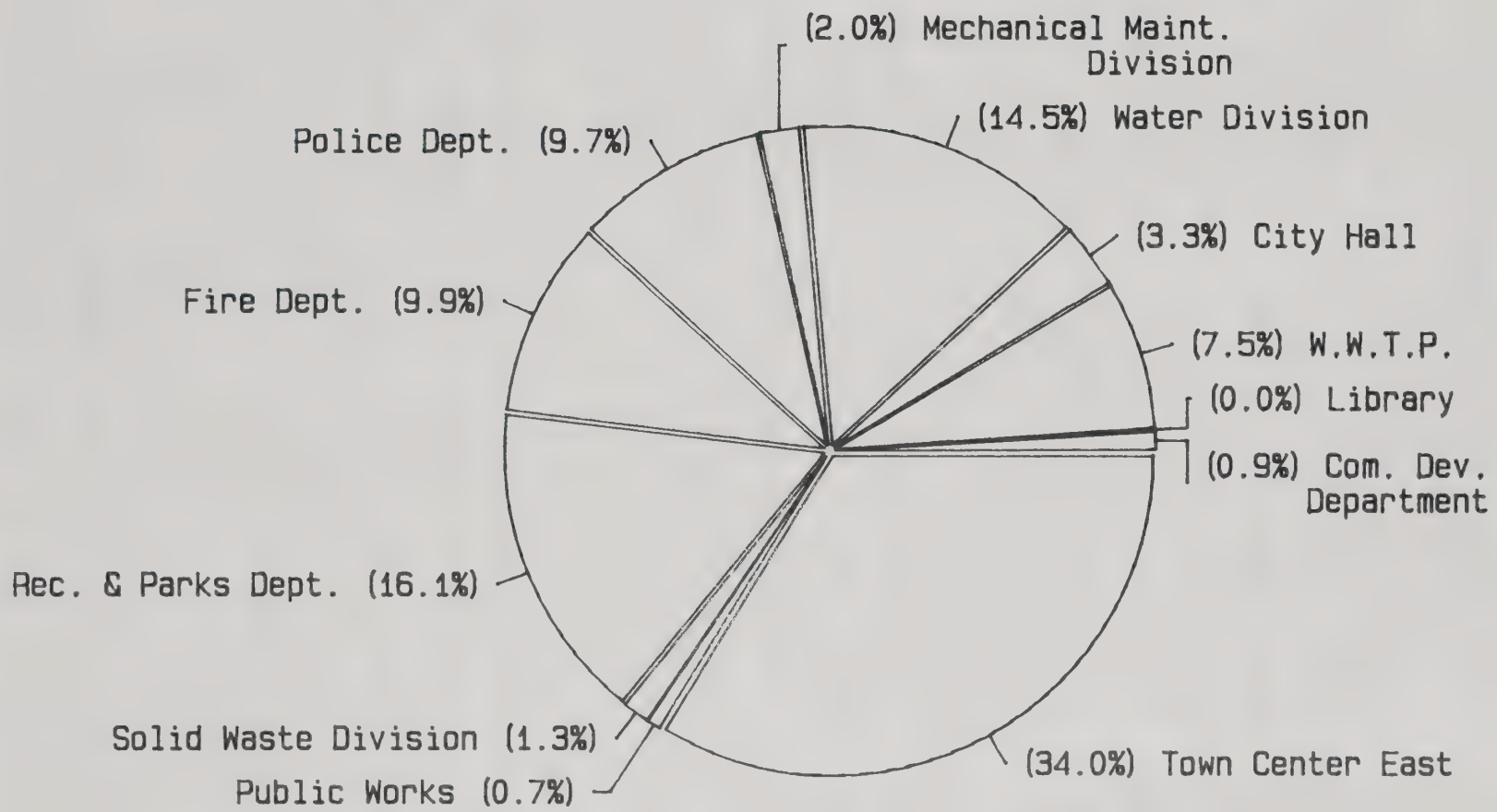
TOTAL MANHOURS 1988-89: 15,126.5

ARSDIVET

Figure 21

CITY OF SANTA MARIA

Street and Sewer Division
Electrical Maint Support
Manhour Utilization 1988-89



TOTAL MANHOURS 1988-89: 2,337

ARSDIVEM

Figure 22

WASTEWATER TREATMENT DIVISION

The Wastewater Treatment Plant is located on Black Road approximately 2.5 miles west of Santa Maria. Its purpose is to treat all domestic and industrial waste collected and conveyed by the wastewater collection system at a reasonable cost. The City of Santa Maria has treated and disposed of wastewater at the present site off Black Road since 1910. The treatment plant is designed to serve a population of approximately 54,000. This includes the capacity to treat over 2 MGD of flow from the City's industries. The average daily capacity of 6.5 MGD, on an annual basis, should be sufficient until mid-1992. During the past year, the average daily flow was 5.73 MGD which was approximately the same as last fiscal year. Service is provided mainly to residential, commercial and industrial development within the City plus a few adjacent areas that are within the county except the southern side of the Santa Maria Airport which, by agreement, is serviced by S. B. County Laguna Sanitation District.

The treatment process removes 91% of the suspended solids (ss) and 93% of the biochemical oxygen demand (BOD) contained in the wastewater. The land disposal system removes an additional percentage of these pollutants and a portion of the nutrients normally found in wastewater, including nitrogen and phosphorus. The plant effluent is suitable for irrigation of permanent non-dairy pasture land and fodder crops. All effluent is discharged on city property and 36% of the flow is disposed of on the fodder crops. The Santa Maria High School F.F.A. have been pasturing their sheep here as a class project; in turn, they disburse the water, maintain banks and levees, do weed control and

maintain the fences. Digested sludge averaged 53.7% volatile reduction. This sludge is dried in earthen beds and can be used as a soil conditioner for landscape so specified in the plant's discharge permit.

Maintenance this past year included replacing air lift pumps steel piping to P.V.C. north side of grit chamber and overhauling #1 raw sludge pump,

Line maintenance has been a problem this past year and to the present with small snails growing in the trickling filters. Vacuum trucks are rented periodically to remove them out of plugged lines. Struvite (magnesium ammonia phosphate) is still accumulating in digester drain lines. The only way plant personnel has found to remove this material is by using sewer cleaning truck with the root cleaner attachment.

With the new plastic media in the two secondary trickling filters, only one (1) trickling filter is needed to be in operation at a time under present operating conditions to meet RWQCB requirements.

The plant is maintained and operated by one Superintendent, one Plant Supervisor, one Chemist, one Source Control Inspector and five Operators, (Figure 22). All plant personnel are currently certified by the California State Water Resources Control Board, including Source Inspector and Chemist.

Plant tours, by students and other interested groups, continue to be given upon request. A total of 53 people toured the plant this fiscal year. Visitors are shown and told about the various components of wastewater treatment used at the plant. Generally, the tours are concluded with a visit to the laboratory where a question and answer session is held.

Bird watching is a regular event at the Wastewater Treatment Plant ponds. A total of 115 bird watchers signed in this past year.

The tests shown in Figure 24 were performed in the wastewater treatment plant laboratory. Certain tests required by the State Water Quality Control Board were beyond the scope of the plant laboratory. For this reason, Chemical Research Laboratory performed these tests, under contract, for the annual analysis (heavy metals, MBAS, phenols, polychlorinated byphenyls, and total chlorinated hydrocarbons). The results of these tests aid in plant operation and, in some cases, reflect plant efficiency or indicate where more source control is needed. In addition to the above, BOD and Total Nonfiltrable Residue (TSS) tests were performed on industrial waste discharges to the wastewater collection system, as necessary for wastewater strength determinations and charges as required under the wastewater ordinance.

It is noteworthy to make a comparison of statistics on the top of Figure 24 for electrical energy used and gas produced with the previous fiscal year. During 1987-88, 1.693 million Kwh or an average of 4,626 Kwh daily of electrical energy was consumed. Likewise, during 1987-88, 31.083 million cubic feet or an average of 84,928 cubic feet of gas was produced daily.

Industrial Source Control - 1988-89

The Industrial Source Control Unit is comprised of one full time Inspector. The part time clerk/computer aide position has been vacant during this fiscal year.

This unit is responsible for regulating and monitoring all industrial wastewater discharges for constituents which exceed allowable discharge

limits, are prohibited from being discharged, cause damage to the City's collection system, or deleterious to treatment plant processes and personnel. Source Control is also responsible for investigating and reporting to the proper agencies any discharges which may be harmful to the environment or pose a public health or safety hazard.

Approximately 675 files containing concise information as required by Federal and State requirements are maintained on industries and businesses. A breakdown with the amounts in the various classes, amount of those permitted, and a brief description of each class is as follows:

Class I	Residential Discharger (Single Family to Multiple Units) No permits required	
Class II	Non-Industrial Discharger, sanitary sewage discharged only. Total in Class II: 294	Permitted: 45*
Class III	Industrial Discharger with a flow less than 25,000 GPD. Total in Class III: 337	Permitted: 164
Class IV	Industrial Discharger with a flow greater than 25,000 GPD. Total in Class IV: 5	Permitted: 5

* Sanitary Discharge Only - hazardous material used in process or stored on site.

One hundred eighty-one Wastewater Discharge Permit Applications were mailed out during the fiscal year. A majority of the applications were returned to this office, and most were determined to be Class II dischargers and will not be permitted, except for those businesses where hazardous chemicals/materials are used in process or stored on site. A total of 17 new permits were issued during this fiscal year.

There were a total of 202 inspections performed during this fiscal year. Source Control received numerous complaints in regards to waste disposal practices by industries/businesses and by local citizens disposing of hazardous material or material which caused a public health hazard. Each case was investigated by the inspector and referred to the proper County or State regulatory agency. Inspections of grease, sand, and oil interceptors continued over the year: some of these were required to be upgraded, modified or replaced due to inadequate removal efficiency.

All Class IV and Categorical Industries are required to submit self-monitoring reports. Golden Coast Electronics Plating and Consulting, Microwave Applications Group, Mission Linen Supply, Ramsey Laboratories, Santa Barbara Research Center, Santa Maria Chili, Simplot Foods, and Tracor Aviation have been submitting self-monitoring reports in accordance with conditions in their Wastewater Discharge Permits. Source Control continues to sample these and other industries/businesses periodically to ensure compliance with Federal, State and Local discharge limitations.

There have been several projects undertaken by Source Control; one of these has been the continuing effort to update files on all businesses and industries. The inspector has continued working on developing a database program, which will enable specific data to be retrieved for reporting and monitoring purposes.

Source Control with the assistance of the Building Division have continued working together to bring all restaurants and businesses into compliance with the grease abatement program. Ninety-five percent of those businesses required to install a grease trap have complied.

Capital Improvement, Revenue and Operation Cost Figures

Capital improvements this fiscal year included hand railing around #1 and #2 secondary clarifier, and the secondary pump pit. Repairs included replacing rotor, stator and gears in one (1) Moyno pump, replaced #2 raw sludge pump time clock, repaired igniter to gas flare, replaced upper and lower bearing #2 headworks grinder motor, U-joints top and bottom #1 pump DeJoy Lift Station, replaced piping in north side grit chamber, replaced bearing to barscreen arm.

Revenue from vacuum truck and septic tank dumpings at the plant amounted to $36,375.

The year's total cost for plant operation was $619,630 which does not include $205,730 for General Administration Services and $1,616,049 in reserves for emergencies and fixed asset replacement. During fiscal year 1988-89, 2,089,960,000 gallons (5.73 MGD) of wastewater was treated at a maintenance and operations cost of $296.47 per million gallons (not including general administration or reserves). This cost per million gallons is a 10.8% decrease over last year. Figure 25 shows the comparative measurements of flow and costs of operation over past years. The cost figures do not reflect various capital outlay items during the year or the annual amount reserved for emergencies and fixed asset replacement. For comparison, the cost considering maintenance and operations, general administration services and reserves is $1168.00 per million gallons.

CITY OF SANTA MARIA
DEPARTMENT OF PUBLIC WORKS
WASTEWATER TREATMENT DIVISION
EXISTING ORGANIZATION CHART

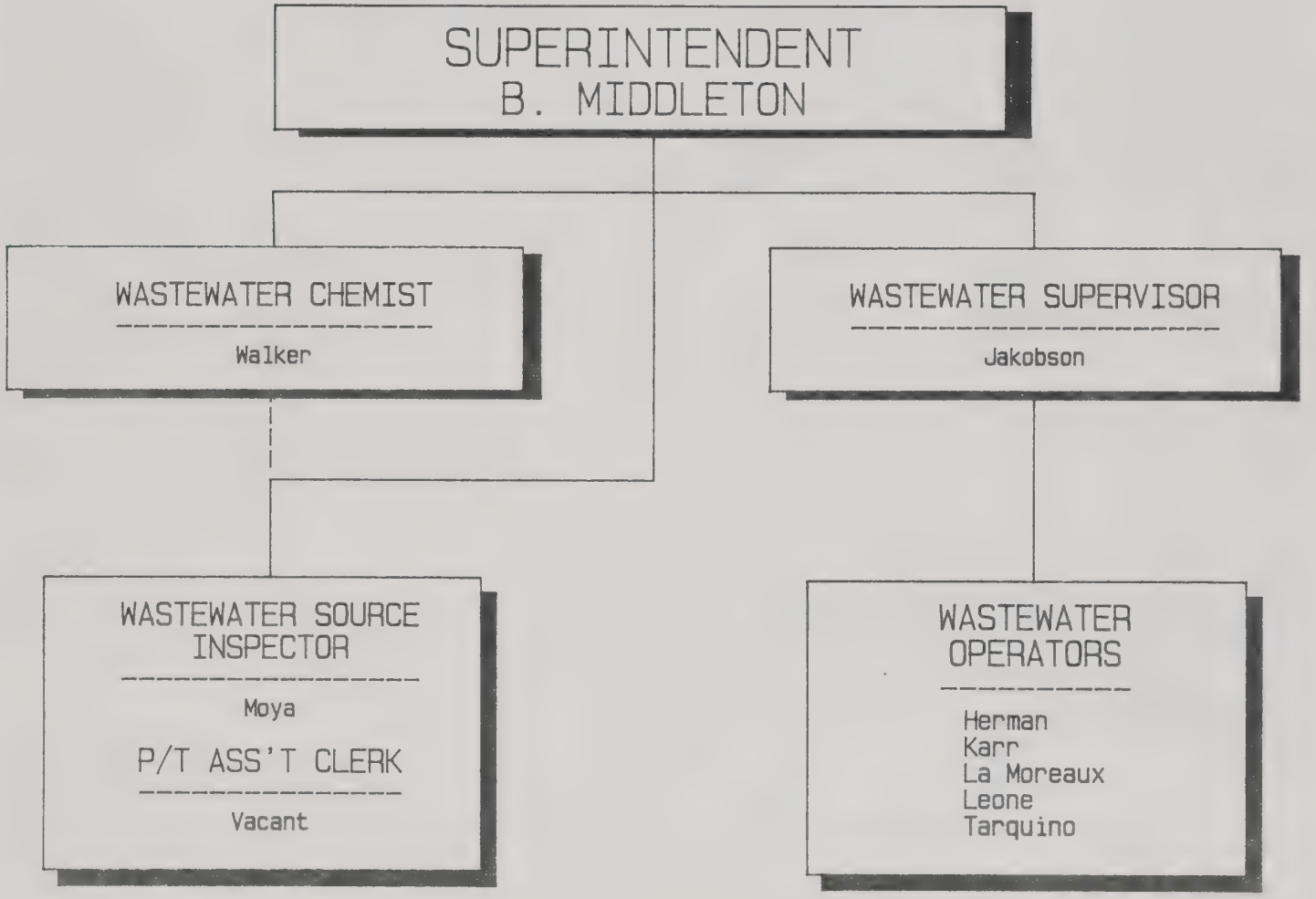


Figure 23

WASTEWATER TREATMENT PLANT LABORATORY REPORT

FISCAL YEAR JULY 1, 1988 TO JUNE 30, 1989

Total Flow	:	2089.96 MG
Daily Average	:	5.73 MGD
Days	:	365
Gas Production Metered	:	30,445,007 Cu Ft
Daily Average	:	83,411 Cu Ft
Total Electricity Used	:	1,471,680 KHW
Daily Average	:	4,032 KHW

- WASTEWATER ANALYSIS - (mg/l unless otherwise indicated)		**Total Analyses**	**Average**	**% Rem**
BOD (influent)	:	20	288	
BOD (effluent)	:	50	21	93
Suspended Solids (inf)	:	20	262	
Suspended Solids (eff)	:	50	22	91
Settleable Solids (ml/l) (inf)	:	357	11.2	
Settleable Solids (ml/l) (eff)	:	357	< 0.1	
pH (no units) (inf)	:	357	8.0	
pH (no units) (eff)	:	357	7.8	
- Effluent Water Analysis -				
TDS by Conductance	:	271	1347	
Dissolved Oxygen	:	48	4.6	
Grease & Oil	:	51	0.4	
Total Dissolved Solids	:	12	1417	
Boron	:	1	0.33	
Chlorides	:	12	368	
Sulfates	:	1	361	
Sodium	:	12	273	
Total Nitrogen	:	1	23.5	

Sludge Analyses Next Page

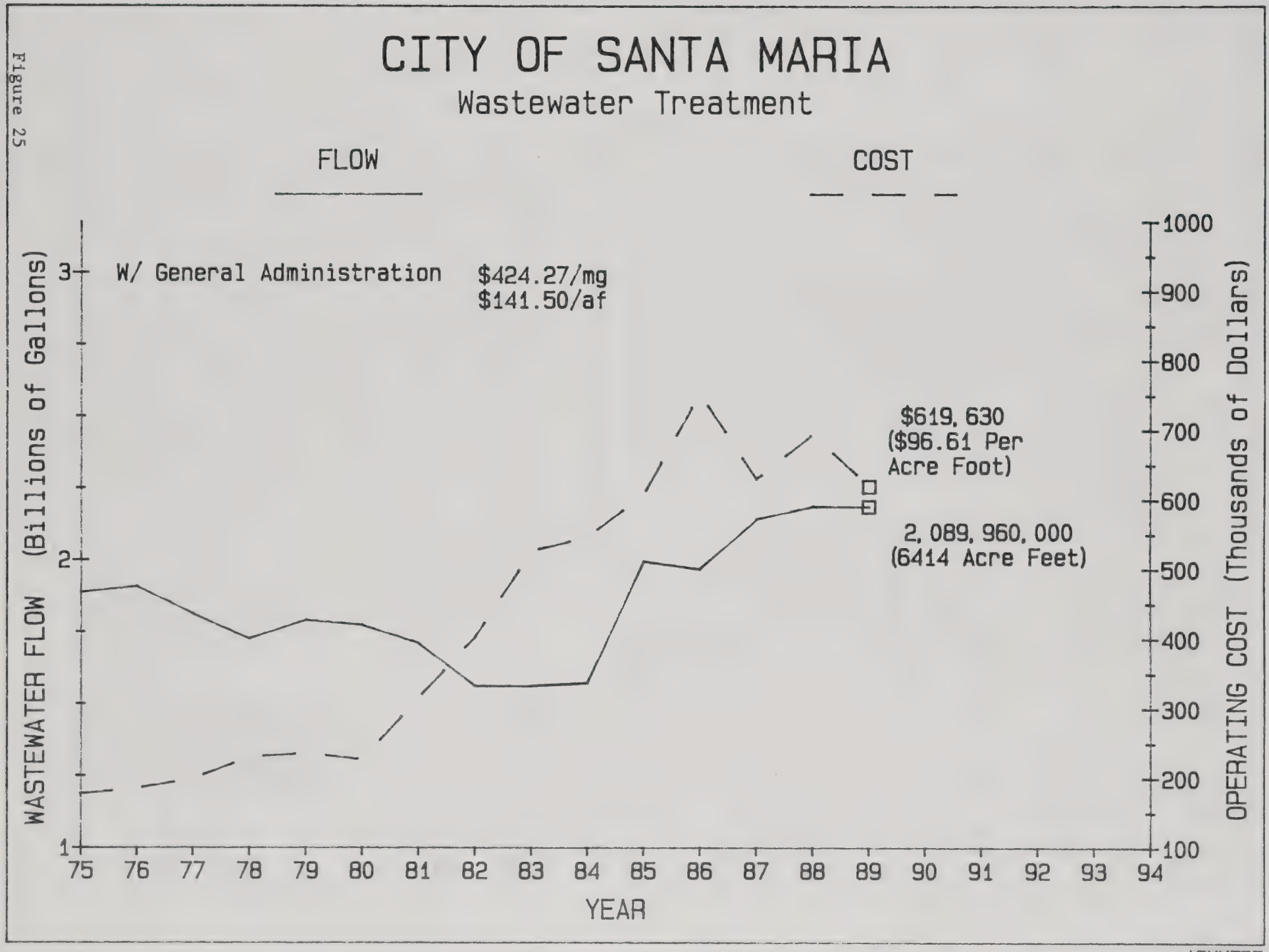
Figure 24

WASTEWATER TREATMENT PLANT LABORATORY REPORT

FISCAL YEAR JULY 1, 1988 TO JUNE 30, 1989

- SLUDGE ANALYSIS -		Total Analyses	Average
Raw Thickened Sludge			
% Solids	:	49	5.71
% Volatile Solids	:	49	78.24
#1 Sludge Digester			
Volatile Acids (mg/l)	:	57	159
Alkalinity (mg/l)	:	57	3336
pH	:	57	6.5
% Solids	:	46	2.69
% Volatile Solids	:	46	64.47
% Volatile Reduction	:		49.53
#2 Sludge Digester			
Volatile Acids (mg/l)	:	19	56
Alkalinity (mg/l)	:	19	2153
pH	:	19	5.7
% Solids	:	10	2.30
% Volatile Solids	:	10	63.81
% Volatile Reduction	:		50.95
#3 Sludge Digester			
Volatile Acids (mg/l)	:	56	157
Alkalinity (mg/l)	:	56	3693
pH	:	56	6.6
% Solids	:	46	2.50
% Volatile Solids	:	46	62.46
% Volatile Reduction	:		53.71
Sludge Supernatant Pit #1			
% Solids	:	19	3.70
% Volatile Solids	:	18	62.23

Figure 25


CITY OF SANTA MARIA
Wastewater Treatment
FLOW
COST
W/ General Administration
$424.27/mg
$141.50/af
$619,630
($96.61 Per
Acre Foot)
2,089,960,000
(6414 Acre Feet)
WASTEWATER FLOW (Billions of Gallons)
OPERATING COST (Thousands of Dollars)
YEAR
1
2
3
100
200
300
400
500
600
700
800
900
1000
75
76
77
78
79
80
81
82
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ARWWTPF

WATER DIVISION

Production

The water production facilities consist of 10 water wells, four booster pumps, two elevated storage reservoirs (13 MG total) and two ground storage reservoirs (2.5 MG total) which results in a combined storage capacity of 15.5 million gallons. The system also includes an electronic control panel at the Public Works Dept. office with telemetering capability which automatically controls the pumps, monitors the level of the reservoirs, and has an alarm system for equipment failures. Total production capability with all wells (except 2-AS) operational is 21.6 million gallons per day or 14,700 GPM or 62.7 AFD. However, we have lost the front line production of three wells (2-AS, 3-H, 4-H) due to unacceptable chemical findings.

Test results from wells 3-H and 4-H have continued to indicate nitrate levels above the maximum contaminate level. Therefore, they have been placed on standby and are only used occasionally. They pump directly into two ground storage reservoirs where water from other conforming well sources is blended to reduce the nitrate to an acceptable level.

The drilling of a new well (Well 12-S) is scheduled to occur during budget period 1990-92. Total production with the remaining seven wells is approximately 18.1 million gallons per day. The wells furnished an average of 10.8 million gallons per day to satisfy the customers' demands. The combined well production and reservoir capacity must also supply peak demands of 17.35 million gallons per day (highest recorded to this time period) and allow, at

all times, for a reserve fire flow supply. The fiscal year total consumption was approximately 3.9 billion gallons (12,099 AF) which reflects an increase of 3% from the previous fiscal year.

For system back up for both the City's system and the California Cities Water Company's system serving mainly the unincorporated area, two interconnections exist. One is near Santa Maria Way and Miller Street and the other is on California Blvd. south of Foster Road.

Distribution

The water distribution section is responsible for transmitting water from the well source to the people. This service is provided to over 14,153 active accounts (an increase of 3.5% over last year) through a water line system which is approximately 232 miles long (an increase of 1.7% over last year). This section also provides the meter reading function, water billing and collection services, installation of service lines, meter maintenance and maintains all water distribution facilities in their entirety. The income from all water sold this fiscal year is shown on the following graph. Totals of various water division functions during the fiscal year 1988-89 are listed as follows:

	Function	No. Completed
1.	Water meter readings	84,918
2.	Water service turn-ons	4,613
3.	Water service turn-offs	4,751
4.	Collection (delinquent bills)	2,648
5.	Water meter re-reads	3,505
6.	Miscellaneous service calls	1,629
7.	New service line and taps installed	4
8.	Water meters installed	1,207
9.	Water meters removed	941
10.	Water meters repaired in shop	168
11.	Large water meters tested & repaired in field	69
12.	Renovation of water meter locations	391

13.	Ball valves installed	932
14.	Water meter vaults installed and replaced	101
15.	Water line leaks repaired	36
16.	Flushing dead-end stations	115
17.	Flushing fire hydrants	286
18.	Fire hydrant repairs, painting and maintenance	319
19.	Main line gate valves operated	1,757

Water Quality

On-going monitoring and testing of the City's water system is done on a routine basis to assure that the water is of good quality and is within the allowable limits of the State Department of Public Health. Chlorine gas is mixed with the water at each well which is carried throughout the system to maintain a residual of .1 PPM of free chlorine at the extremities of the distribution system. This minimum amount of free chlorine is a positive indicator that any pathogenic material that may have entered the system will be killed by exposure to the chlorine. Following is a listing of tests that are collected and analyzed to insure that the quality of the water continually meets all health standards as set forth by the State Department of Public Health. Figure 28 is a schedule showing frequency of the necessary tests for our system to comply with current State Health Dept. requirements.

1. GENERAL MINERAL: Samples are collected and analyzed annually from each well source and the distribution sampling station located in the 1400 block of East Alvin. Figure 28 is a plot of the average system concentration of total dissolved solids over recent years.

2. GENERAL PHYSICAL: Four samples are collected and analyzed per month on a rotating basis from the 14 sampling stations located through the distribution system.

3. INORGANIC CHEMICAL: Samples are collected and analyzed from three wells annually on a rotating basis so that all wells are sampled every three years.

4. BACTERIOLOGICAL: 14 samples are collected and analyzed weekly from the distribution system's 14 sampling stations.

5. TRIHALOMETHINES: One sample is collected and analyzed quarterly from the distribution sampling station which is located at N. Broadway and Preisker Lane.

6. VOLITILE ORGANICS: One sample is collected and analyzed quarterly from each well source.

7. RADIOLOGICAL: Three wells are sampled and analyzed quarterly every four years; the wells sampled include one well from the South McClelland well field and two wells from the Airport well field.

8. PHALATES: One sample is collected and analyzed bi-annually from Well 10-S.

Investigation is continuing into the presence of TCE (trichlorethylene) found in Well 2-AS. An engineering report was submitted and approved by the State Health Department on November 12, 1985 that would allow a method of blending water from Well 2-AS with water from our other wells if the need to do so should occur. At this point, we have not had to use the blending option and Well 2-AS has not been in operation. Since this well is shallow, does not have the proper sanitary seal, and is over 40 years old, the drilling of a new

well (12-S) is planned and should occur during 1990-92. Also, further investigation is being done by the Regional Water Quality Control Board into the presence of TCE (trichlorethylene) at Well 2-AS.

The State Department of Water Resources (DWR) staff is continuing to perform the necessary preliminary engineering and Environmental Impact Report (E.I.R.) preparation for the coastal branch of the State Water Project. Key staff representatives from the concerned entities in San Luis Obispo and Santa Barbara Counties periodically meet with DWR staff during this work effort. Currently, it is anticipated that the EIR will be in draft form in early 1990 with EIR certification for the coastal branch anticipated in mid to late 1990.

The **CROSS CONNECTION CONTROL PROGRAM** is primarily a procedure to protect the public water supply from potential sources of contamination. This refers to any connection that could permit toxic or pathogenic material, or materials objectionable to taste or odor, from entering the public water system.

The following quantities of "backflow prevention" items of work were performed this past year.

Item	No. Completed
Installed	25
Replaced	28
Repaired	43
Installation Inspection	81
Survey Inspection	22
Informational Services	48
Conferences	68
Correspondence Reports	70
Tested	585

Figure 27 is a plot of annual revenue, costs and amount of water production. The cost per acre foot reflects costs of operation and maintenance of

the system, overhead, plus repair or replacement of deficiencies in the existing system. No new capital outlay costs or bond service is included in the cost per acre foot.

The continuation of the present level of service to the public during the fiscal year 1988-89 caused the purchase of new water meters at a cost of $54,716.

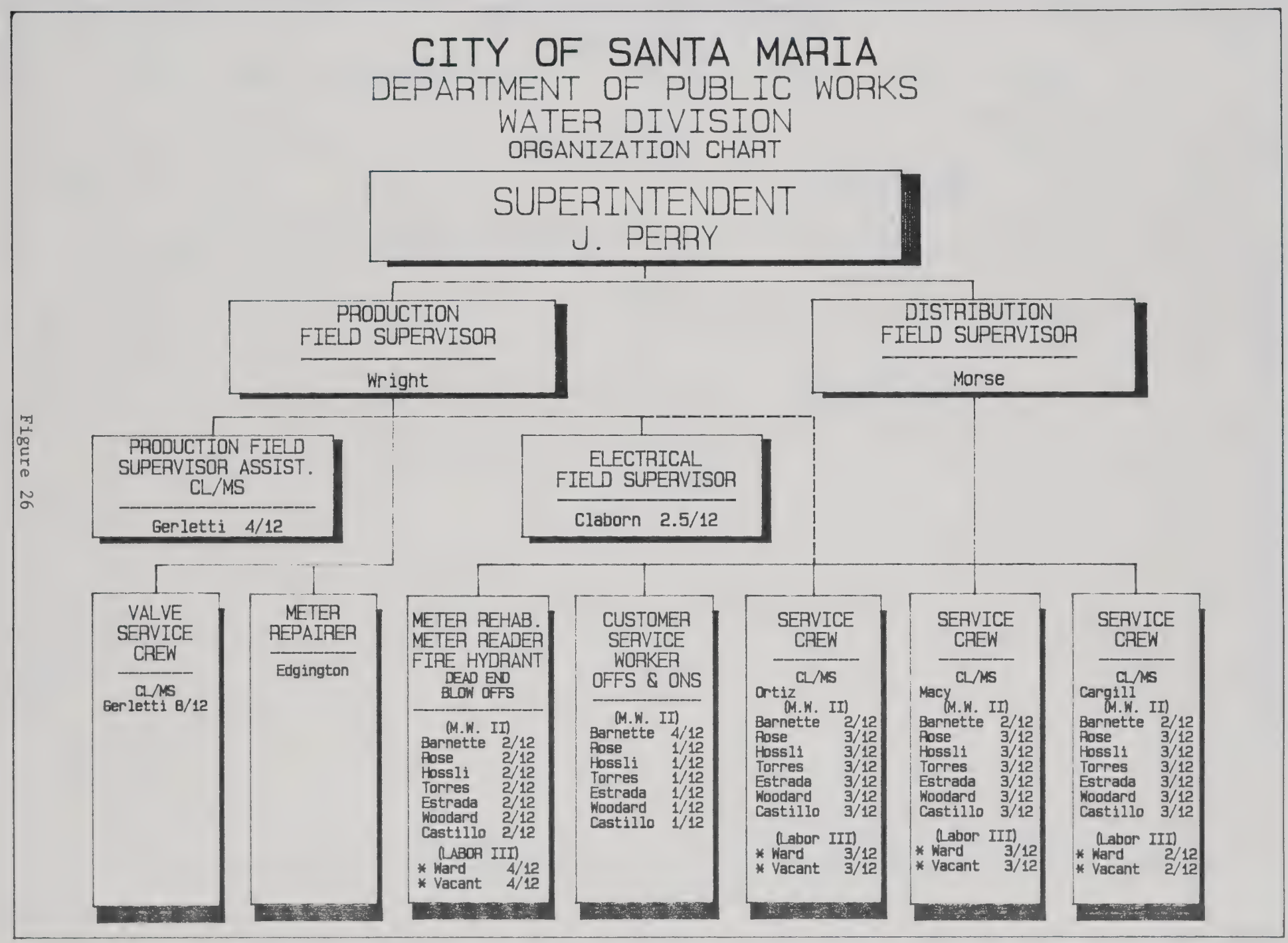

CITY OF SANTA MARIA
DEPARTMENT OF PUBLIC WORKS
WATER DIVISION
ORGANIZATION CHART
SUPERINTENDENT
J. PERRY
PRODUCTION FIELD SUPERVISOR
Wright
DISTRIBUTION FIELD SUPERVISOR
Morse
PRODUCTION FIELD SUPERVISOR ASSIST. CL/MS
Gerletti 4/12
ELECTRICAL FIELD SUPERVISOR
Claborn 2.5/12
VALVE SERVICE CREW
CL/MS
Gerletti 8/12
METER REPAIRER
Edgington
METER REHAB. METER READER FIRE HYDRANT DEAD END BLOW OFFS
(M.W. II)
Barnette 2/12
Rose 2/12
Hossli 2/12
Torres 2/12
Estrada 2/12
Woodard 2/12
Castillo 2/12
(LABOR III)
* Ward 4/12
* Vacant 4/12
CUSTOMER SERVICE WORKER OFFS & ONS
(M.W. II)
Barnette 4/12
Rose 1/12
Hossli 1/12
Torres 1/12
Estrada 1/12
Woodard 1/12
Castillo 1/12
SERVICE CREW
CL/MS
Ortiz
(M.W. II)
Barnette 2/12
Rose 3/12
Hossli 3/12
Torres 3/12
Estrada 3/12
Woodard 3/12
Castillo 3/12
(Labor III)
* Ward 3/12
* Vacant 3/12
SERVICE CREW
CL/MS
Macy
(M.W. II)
Barnette 2/12
Rose 3/12
Hossli 3/12
Torres 3/12
Estrada 3/12
Woodard 3/12
Castillo 3/12
(Labor III)
* Ward 3/12
* Vacant 3/12
SERVICE CREW
CL/MS
Cargill
(M.W. II)
Barnette 2/12
Rose 3/12
Hossli 3/12
Torres 3/12
Estrada 3/12
Woodard 3/12
Castillo 3/12
(Labor III)
* Ward 2/12
* Vacant 2/12

Figure 26

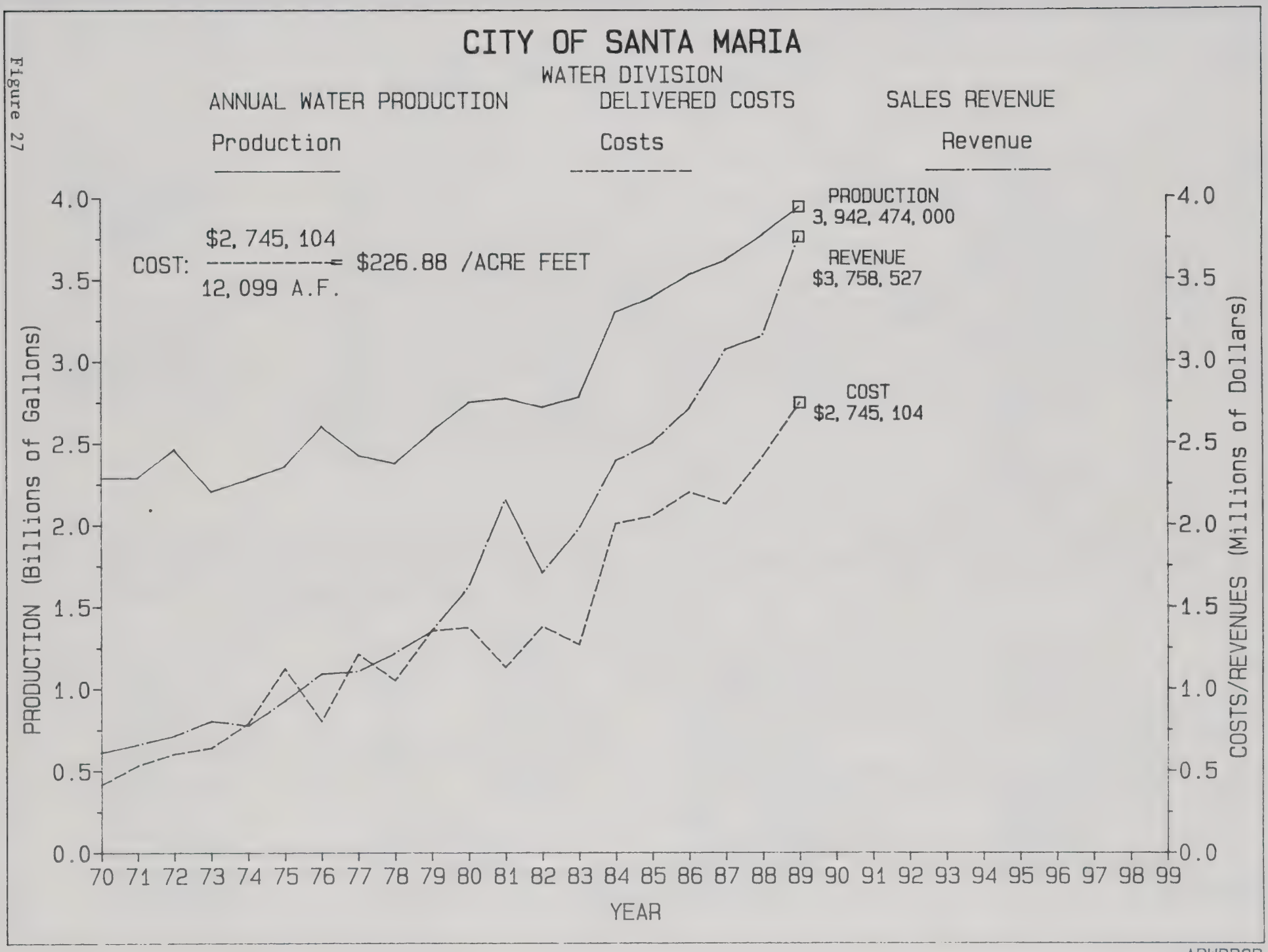

CITY OF SANTA MARIA
WATER DIVISION
ANNUAL WATER PRODUCTION
DELIVERED COSTS
SALES REVENUE
Production
Costs
Revenue
COST: $2,745,104 / 12,099 A.F. = $226.88 /ACRE FEET
PRODUCTION
3,942,474,000
REVENUE
$3,758,527
COST
$2,745,104
PRODUCTION (Billions of Gallons)
COSTS/REVENUES (Millions of Dollars)
YEAR
0.0
0.5
1.0
1.5
2.0
2.5
3.0
3.5
4.0
70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99
ARWDPCR

Figure 27

Figure 28

CITY OF SANTA MARIA

WATER QUALITY MONITORING SCHEDULE

ACTIVE WELLS

5AS 09N/34W/03F10S
6S 10N/34W/34E02S
7S 10N/34W/34Q01S
8S 10N/34W/27L01S
9S 10N/34W/28J01S
10S 10N/34W/28M01S
11S 10N/34W/33A01

STANDBY WELLS (13)

3H 10N/34W/14ED5S
4H 10N/34W/14ED4S

INACTIVE WELLS

2AS 10N/34W/34FD1S
6H 10N/34W/14ED6S

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC
BAC	1 1											WKLY
GEN MIN										2 3 1 1		ANNU
GEN PHY	2 1											MONT
IN-ORG							2 8 1					ANNU
ORG VOC		2 1 1			2 1 1			2 1 1			2 1 1	QUAR
RAD ACT		2 7 9 1			2 7 9 1			2 7 9 1			2 7 9 1	QUAR
THM			4 12			4 12			4 12		QUAR	4 12
PHA		6 12						6 12				BI-ANNU

TEST METHODS

COLIFORM 5 TUBE
MEMBRANE
COLIALERT
524.2 FULL SCAN
504.0 E.D.B., D.B.C.P.
507.0 ATRAZINE & SIMAZINE +GLYPHOSPHATE
531.0 CARBOFURAN
505.0 CHLORDANE HEPTACHLOR, HEPTACHLOR EPOXIDE
525.0 DIETHYLHEXYLpH + HALATE E.P.A. #900
524.2 TRIHALOMETHANE ONLY
524.2 PHALATES ONLY

REG.ORG. WAIVED

ENDRIN
LINDANE
METHOXYCHLOR
TOXAPHENE
2-4-D
2-4-S-TP
SILVEX
THIOBEN CALB.
MOLINATE
BENTAZON

SAMPLE SCHEDULE

(1) 14 SAMP. STAT. (2) ALL ACTIVE WELLS (3) 1400 BLK. E. ALVIN (4) N. BROADWAY SAMPLE STA. (5) 4 OF 14 SAMPLE STATIONS (6) WELL 10S ONLY

(7) COLLECT PRIOR TO TREATMENT (8) ANNUALLY ROTATE 3 WELLS (9) ANNUALLY ROTATE 2 WELLS (10) QUARTERLY EVERY FOUR YEARS (11) TITLE 22 ADMINISTRATIVE CODE

(12) AB-1803 (13) STANDBY WELLS SAMPLE WHEN ACTIVATED, ANNUALLY IF POSITIVE

REGULATED M.C.L.'S

BACTERIA

MULTIPLE TUBE TECHNIQUE. SHALL NOT HAVE 3 PORTIONS OF 1 SAMP. POSITIVE.

GEN. MIN. ANAL.

	MCL
BICARBONATE N/L	"
CARBONATE N/L	"
HYDROXIDE ALKALINITY N/L	"
CALCIUM N/L	"
CHLORIDE 500 MG/L	"
COPPER 1000 UG/L	"
FOAMING AGENTS (MBAS) .5 MG/L	"
IRON .3	"
MAGNESIUM N/L	"
MANGANESE .05	"
PH.	"
SODIUM N/L	"
SULFATE 500 MG/L	"
SPECIFIC CONDUCTANCE 1600	"
T.D.S. 1000	"
TOTAL HARDNESS 200	"
ZINC 5000 UG/L	"
LANGELIER INDEX	"

GEN.PHYS.

	MCL
COLOR 15.	"
ODOR 3.	"
TURB. 5.	"

TRIHALO.

TOTAL T.H.M. 100 UG/L

INORGANICS

	MCL/MgL
ARSENIC .05	"
BARIUM 1.0	"
CADIUM .010	"
CHROMIUM .05	"
LEAD .05	"
MERCURY .002	"
NITR.(NO3) 45.	"
SELENIUM .01	"
SILVER .05	"
ALUMINUM 1.	"
COPPER 1.	"

RADIOACTIVITY

GROSS ALPHA COMB.5.pCi/L MAX.
GROSS BETA 50 pCi/L MAX.
URANIUM 20pCi/L MAX.■
■ GROSS ALPHA MAY BE SUBSTITUTED IF LESS THAN 5pCi/L

ORGANICS

	MCL/MgL
ETHYLENE DIBROMIDE (EDB) .00002	"
■1,1,1-TRICHLORETHANE .2	"
■1,1 DICHLORDETHYLENE .006	"
■BENZENE .001	"
■XYLENES (SINGLE SUM OF ISOMERS)	"
■MONOCHLOROBENZENE .030	"
■ETHYLBENZENE .680	"
■1,3- DICHLOROPROPENE .0005	"
■1,1,2,2- TETRACHLORDETHANE .001	"
■TETRACHLORDETHYLENE(PCE) .005	"
■1,2- DICHLORDETHANE .0005	"
■VINYL CHLORIDE .0005	"
■CARBON TETRACHLORIDE .0005	"
■1,4-DICHLOROBENZENE .005	"
■1,1,2- TRICHLORDETHANE .032	"
THIOBEN CARB .07	

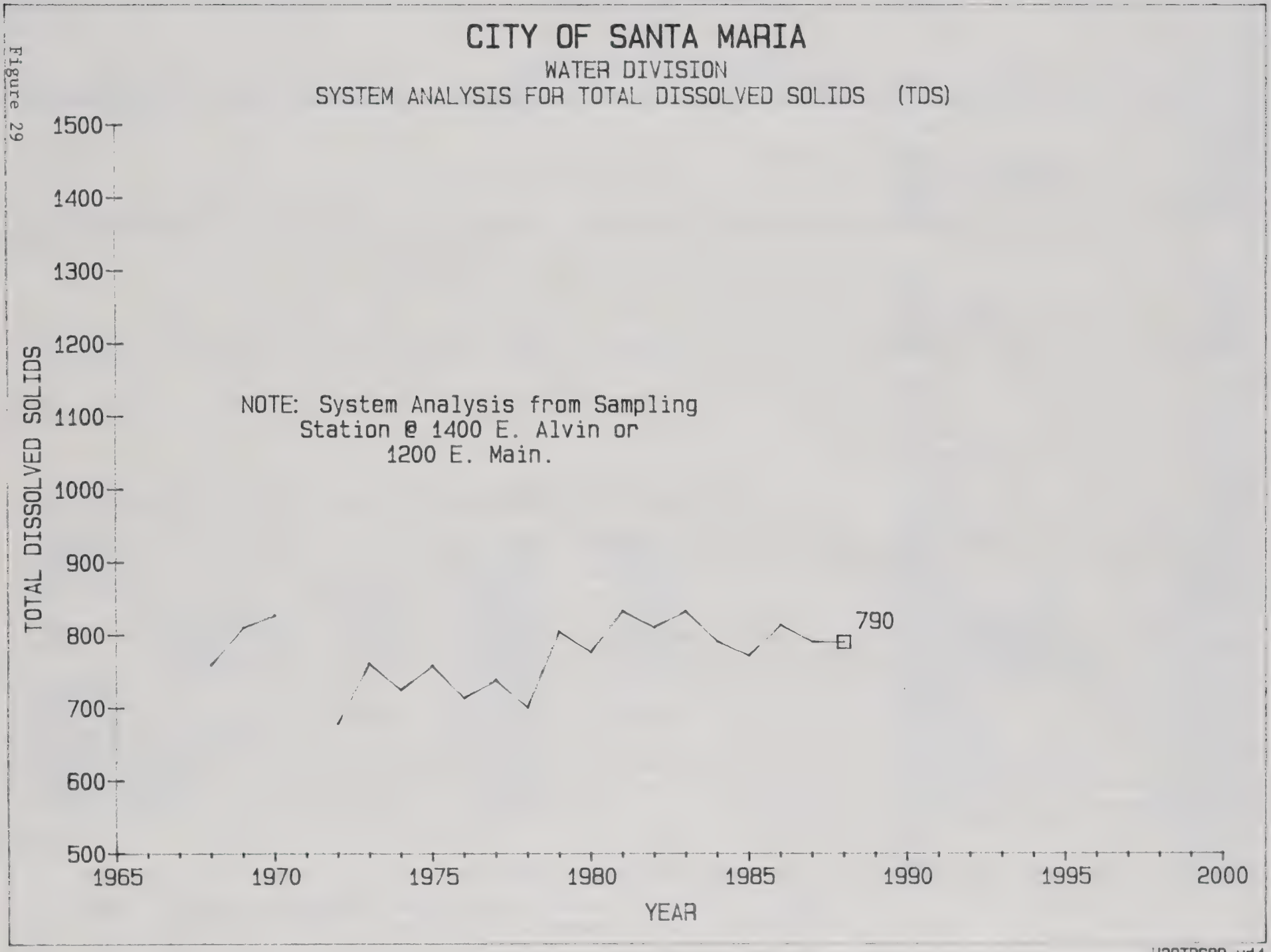
■ UP TO TWO ADDITIONAL SAMPLES W/IN SEVEN DAYS FOR POSITIVE RESULTS. ■=VOC

ORGANICS

	MCL/MgL
MOLINATE .02	"
BENTAZON .018	"
ATRAZINE .003	"
SIMAZINE .01	"
■CIS-1,2-DICHLORDETHYLENE TBD	
■TRANS-1'2-DICHLORDETHYLENE TBD	
■1,1 DICHLORDETHANE TBD	
■1,2 DICHLOROPROPANE TBD	
■TRICHLOROFLOROMETHANE TBD	
■1,1,2 TRICHLORO-1,2,2-TRIFLUORDETHANE (FREON 113)TBD	
CARBOFURAN TBD	
GLYPHOSATE TBD	
CHLORDANE TBD	
HEPTACHLOR TBD	
HEPTACHLOR EPOXIDE TBD	
DIETHYLHEXYLPHTHALATE TBD	

dr.by.: g.france 5/16/89

Figure 29


CITY OF SANTA MARIA
WATER DIVISION
SYSTEM ANALYSIS FOR TOTAL DISSOLVED SOLIDS (TDS)
TOTAL DISSOLVED SOLIDS
1500
1400
1300
1200
1100
1000
900
800
700
600
500
NOTE: System Analysis from Sampling
Station @ 1400 E. Alvin or
1200 E. Main.
790
1965
1970
1975
1980
1985
1990
1995
2000
YEAR
H2OTDS89.wd4

APPENDIX A
FINANCIAL INFORMATION
1988-89

FISCAL YEAR EXPENDITURES

FUNCTION	OVERHEAD	OPERATIONS	CAPITAL OUTLAY	BOND SERVICE	FUND SOURCE(S)	
					General	146,294
					Water	26,955
					Refuse-Collection	21,488
					Refuse-Disposal	14,214
ADMINISTRATION		$ 222,714	$ -0-		Sewer	13,763
					General	287,781
					Water	64,091
					Refuse-Collection	51,092
					Refuse-Disposal	33,798
BUILDINGS		$ 441,166	$ 28,320		Sewer	32,724
					General	397,300
					Water	69,664
					Refuse-Collection	55,535
					Refuse-Disposal	36,736
					Sewer	35,569
ENGINEERING		$ 593,303	$ 9,001		Gas Tax	7,500
					General	2,681,598
STREETS		1,331,262	2,982,421		Gas Tax/TDA	1,632,085
SEWERS		141,257	2,893		Sewer	144,150
WASTEWATER	$205,730	737,499	39,900		Sewer	983,129
- COLLECTION/RES.	161,300	805,943	2,062		Refuse-Collection	969,305
SOLID - COLLECTION/COM.	126,730	502,288	28,339		Refuse-Disposal	657,357
WASTE - DISPOSAL	212,730	956,153	310,098		Refuse-Disposal	1,478,981
- ST. SWEEPING	-0-	198,678	-0-		Refuse-St. Sweeping	198,678
DRAINAGE		59,113			General	59,113
WATER	430,000	2,149,170	556,284		Water	3,135,454
MECHANICAL MAINTENANCE		1,540,083			Equipment	1,540,083
PARKING DISTRICT		2,397			District	2,397
STOWELL CENTER		10,848			Maintenance District	10,848
PARKING AUTHORITY		223,289		$2,623,137	General	2,846,426
					Trans. Devp. Act	365,689
SMAT					UMTA	400,248
		718,939	155,288		Fares	108,290

NOTE: The above information should not be used as final audit figures but are reasonably accurate for the purpose of this summary.

(D) Depreciation

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